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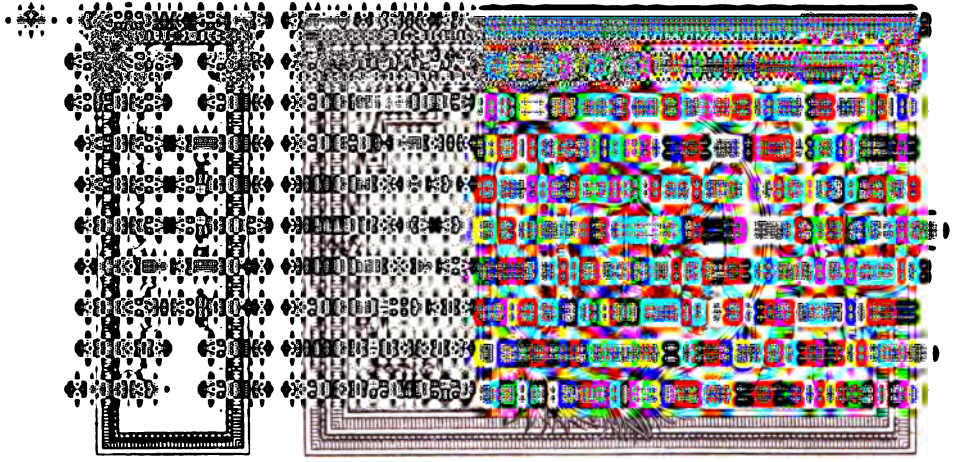

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CATALOGUE

OF

DARTMOUTH COLLEGE

TOGETHER WITH THE

AMOS TUCK SCHOOL OF ADMINISTRATION
AND FINANCE

THE THAYER SCHOOL OF CIVIL ENGINEERING

AND

THE MEDICAL SCHOOL

FOR THE YEAR

1906-1907

HANOVER, N. H.
PRINTED FOR THE COLLEGE
1906

University Press:
John Wilson and Son, Cambridge, U.S.A.

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COLLEGE CALENDAR

DARTMOUTH COLLEGE

1906

September 11–17 . . Examinations for Admission — Tuesday to Monday.

September 20 . . . Academic year began — Thursday morning.

October 10 . . . . Athletic Field-day; a holiday.

November 29 . . . Thanksgiving Day; a holiday.

Recess from December 20, 10 A.M., to January 3, inclusive.

1907

January 23 to Feb. 5 First Semester Examinations.

March 27 . . . . The Smith and Rollins Prize Speaking — 8 P.M.

Recess from April 3, 10 A.M., to April 17, inclusive.

June 10–22 . . . . Second Semester Examinations.

June 18–21 . . . . Examinations for Admission.

June 22 . . . . . Speaking for the Barge medal and for the "Class of 1866" prizes — Saturday, 8 P.M.

June 23 . . . . . Baccalaureate Discourse — Sunday, 10.30 A.M.

Address before the Christian Association — Sunday, 8 P.M.

June 24 . . . . . Class Day Exercises — Monday, 3 P.M.

June 25 . . . . . Annual Meeting of the Phi Beta Kappa Society — Tuesday, 8.30 A.M.

Address — Alumni Association — 10.30 A.M.

Annual Meeting of the Alumni Association — 2.30 P.M.

Greek Letter Society Reunions — 5 P.M.

President's Reception, College Hall, 9–11 P.M.

June 26 . . . . . COMMENCEMENT — Last Wednesday in June.

1907 *Summer Vacation of Twelve Weeks.*

September 12–17 . . Examinations for Admission — Thursday to Tuesday.

September 17, 18 . Registration — Tuesday, Wednesday.

September 19 . . . Academic year begins — Thursday morning.

December 19 . . . Christmas recess begins.

AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

1906

September 20 . . . Year began — Thursday morning.
November 29 . . . Thanksgiving Day; a holiday.
Recess from December 20, 10 A.M., *to January* 3, *inclusive.*

1907

January 23 to Feb. 5 Examinations for First Year Course.
April 3–17 . . . . Recess for First Year Course.
April 24 . . . . Second Year Course ends.
June 10–22 . . . . Examinations for First Year Course.

THAYER SCHOOL OF CIVIL ENGINEERING

1906

July 17 . . . . . First Year Course began.
September 19 . . . Second Year Course began.
December 20 . . . Recess of two weeks begins.

1907

April 24 . . . . Thayer School Year ends.

MEDICAL SCHOOL

1906

August 15 . . . . Third and Fourth Year Courses began.
September 20 . . . First and Second Year Courses began.
Recess from December 20, 10 A.M., *to January* 3, *inclusive.*

1907

March 29 . . . . Third and Fourth Year Courses end.
Examinations by Delegates.
Graduating Exercises.
Recess from April 3, 10 A.M., *to April* 17, *inclusive.*
June 26 . . . . . First and Second Year Courses end.
August 6 . . . . Third and Fourth Year Courses begin.
September 19 . . . First and Second Year Courses begin.

CHARTER

THE

CHARTER OF DARTMOUTH COLLEGE

GEORGE THE THIRD by the grace of GOD of Great Britain France and Ireland KING Defender of the Faith, and so forth. —

To all to whom these Presents shall come.

GREETING.

WHEREAS it hath been represented to our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our Province of NEW HAMPSHIRE in New England in AMERICA, that the Reverend ELEAZER WHEELOCK of Lebanon in the Colony of Connecticut in New England aforesaid, now Doctor in Divinity, did on or about the year of our Lord one thousand seven hundred and Fifty four, at his own expence, on his own Estate and Plantation set on foot an INDIAN Charity School and for several years through the assistance of well-disposed Persons in America, cloathed, maintained and educated a number of the Children of the Indian Natives, with a view to their carrying the Gospel in their own Language and spreading the knowledge of the great Redeemer among their Savage Tribes, and hath actually employ'd a number of them as Missionaries and Schoolmasters in the Wilderness for that purpose: and by the blessing of GOD upon the endeavours of said Wheelock the design became reputable amoung the Indians insomuch that a larger number desired the Education of their Children in said School; and were also disposed to receive Missionaries and Schoolmasters in the Wilderness more than could be supported by the charitable Contributions in these American Colonies. — WHEREUPON the said Eleazer Wheelock thought it expedient that endeavours should be used to raise Contributions from well disposed Persons in England for the carrying on and extending said undertaking, And for that purpose said Eleazer Wheelock requested the Reverend Nathaniel

Whitaker now Doctor in Divinity to go over to England for that purpose, and sent over with him the Reverend Samson Occom an Indian Minister who had been educated by the said Wheelock, And to enable the said Whitaker to the more successful performance of said Work on which he was sent, said Wheelock gave him a full Power of Attorney by which said Whitaker solicited those worthy & generous Contributors to the Charity viz^{t}. The Right Honorable WILLIAM Earl of DARTMOUTH, The Honorable Sir SIDNEY STAFFORD SMYTHE Knight, one of the Barons of his Majesty's Court of Exchequer, JOHN THORNTON of Clapham in the County of Surrey Esquire, SAMUEL ROFFEY of Lincoln's Inn fields in the County of Middlesex Esquire, CHARLES HARDY of the parish of Saint Mary-le-bonne in said County Esquire, DANIEL WEST of Christ's church Spitalfields in the County aforesaid Esquire, SAMUEL SAVAGE of the same place Gentleman, JOSIAH ROBERTS of the parish of Saint Edmund the King Lombard Street, London Gentleman, and ROBERT KEEN of the parish of Saint Botolph Aldgate London, Gentleman, to receive the several Sums of Money which should be contributed, and to be Trustees for the Contributors to such Charity, which they chearfully agreed to. Whereupon the said Whitaker did by virtue of said Power of Attorney constitute and appoint the said Earl of Dartmouth Sir Sydney Stafford Smythe, John Thornton, Samuel Roffey, Charles Hardy & Daniel West Esquires, and Samuel Savage Josiah Roberts and Robert Keen Gentlemen to be Trustees of the Money which had then been contributed, and which should by his means be contributed for said Purpose; which Trust they have accepted as by their engrossed Declaration of the same under their Hands and Seals well executed fully appears, and the same has also been ratified by a deed of Trust well executed by the said Wheelock; — And the said Wheelock further represents that he has by power of Attorney for many weighty reasons, given full Power to the said Trustees to fix upon and determine the place for said School most subservient to the great end in view, and to enable them understandingly to give the preference, the said Wheelock has laid before the said Trustees the several Offers which have been generously made in the several Governments in America to encourage and invite the settlement of said School among them for their own private emolument, and the increase of Learning in their respective places as well as for the furtherance of the general design in view. And whereas a large number of the Proprietors of Lands in the western part of this our Province of New Hampshire,

animated & excited thereto by the generous example of his Excellency their Governor, and by the liberal Contributions of many Noblemen and Gentlemen in England; and especially by the consideration that such a situation would be as convenient as any for carrying on the great design among the Indians; and also considering that without the least impediment to the said design the same School may be enlarged & improved to promote Learning among the English, & be a means to supply a great number of Churches & Congregations which are likely soon to be formed in that new Country with a learned & orthodox ministry; they the said Proprietors have promised large Tracts of Land for the uses aforesaid, provided the School shall be settled in the western part of our said Province. And they the said Right Honorable, Honorable and worthy Trustees before mentioned having maturely consider'd the reasons & arguments in favour of the several Places proposed, have given the preference to the western part of our said Province lying on Connecticut River, as a situation most convenient for said School; And the said Wheelock has further represented a necessity of a legal Incorporation in order to the safety and well being of said Seminary, and its being capable of the tenure & disposal of Lands & bequests for the use of the same. And the said Wheelock has also represented that for many weighty reasons it will be expedient at least in the infancy of said Institution or 'till it can be accommodated in that new Country and he & his Friends be able to remove and settle by and round about it, that the Gentlemen whom he has already nominated in his last Will (which he has transmitted to the aforesaid Gentlemen of the Trust in England) to be Trustees in America should be of the Corporation now proposed & also as there are already large Collections for said School in the hands of the aforesaid Gentlemen of the Trust in England and all reason to believe from their singular wisdom, piety and zeal to promote the Redeemers cause (which has already procured for them the utmost confidence of the Kingdom) we may expect they will appoint Successors in time to come who will be men of the same Spirit whereby great good may & will accrue many ways to the institution & much be done by their example and influence to encourage and facilitate the whole design in view; for which reason said Wheelock desires that the Trustees aforesaid may be vested with all that power therein which can consist with their distance from the same KNOW YE THEREFORE, that We considering the Premises and being willing to encourage the laudable & charitable design of spreading Christian

Knowledge among the Savages of our American Wilderness and also that the best means of Education be established in our Province of New Hampshire for the benefit of said Province, DO of our special grace certain knowledge and mere motion by and with the advice of our Council for said Province by these Presents Will, ordain, grant & constitute that there be a College erected in our said Province of New Hampshire by the name of DARTMOUTH COLLEGE for the education & instruction of Youth of the Indian Tribes in this Land in reading, writing & all parts of Learning which shall appear necessary and expedient for civilizing & christianizing Children of Pagans as well as in all liberal Arts and Sciences; and also of English Youth and any others, and the Trustees of said College may and shall be one body corporate and politick in deed action & name, and shall be called, named & distinguish'd by the Name of the TRUSTEES of DARTMOUTH COLLEGE And further we have willed given granted constituted and ordained and by this our present Charter of our special grace certain knowledge & mere motion with the advice aforesaid DO for us our heirs and successors forever will give grant constitute & ordain that there shall be in the said DARTMOUTH COLLEGE from henceforth and forever a body politick consisting of Trustees of said Dartmouth College And for the more full & perfect erection of said Corporation & body politick consisting of Trustees of Dartmouth College We of our special grace certain knowledge & mere motion DO by these Presents for us our Heirs & Successors make ordain constitute and appoint our trusty and well beloved JOHN WENTWORTH, Esquire Governor of our said Province and the GOVERNOR of our said Province of New Hampshire for the time being and our Trusty and well beloved THEODORE ATKINSON Esquire now President of our Council of our said Province GEORGE JAFFREY & DANIEL PIERCE Esquires both of our said Council and PETER GILMAN Esquire now Speaker of our House of Representatives in said Province & WILLIAM PITKIN, Esquire one of the Assistants of our Colony of Connecticut & our said trusty and well beloved ELEAZER WHEELOCK of Lebanon Doctor in Divinity, BENJAMIN POMROY of Hebron JAMES LOCKWOOD of Weathersfield TIMOTHY PITKIN & JOHN SMALLEY of Farmington & WILLIAM PATTEN of Hartford all of our said Colony of Connecticut Ministers of the Gospel. (the whole number of said Trustees consisting and hereafter forever to consist of TWELVE & no more) to be Trustees of said Dartmouth College in this our Province of New Hampshire And we do further of our special grace certain knowl-

edge and mere motion for us our Heirs and Successors will give grant and appoint that the said Trustees & their Successors shall forever hereafter be in deed act & name, a body corporate & politick & that they the said body corporate & politick shall be known & distinguished in all deeds grants bargains sales writings evidences or otherwise howsoever, & in all Courts forever hereafter plead and be impleaded by the Name of the Trustees of Dartmouth College and that the said Corporation by the name aforesaid shall be able and in law capable for the use of said Dartmouth College to have get acquire purchase receive hold possess and enjoy tenements hereditaments jurisdictions and franchizes for themselves and their Successors in fee simple or otherwise howsoever & to purchase receive or build any House or Houses or any other buildings as they shall think needful & convenient for the use of said Dartmouth College and in such Town in the western part of our said Province of New Hampshire as shall by said Trustees or the major part of them be agreed on their said agreement to be evidenced by an instrument in writing under their hands ascertaining the same And also to receive and dispose of any Lands goods chattels and other things of what nature soever for the use aforesaid And also to have accept and receive any rents profits annuities gifts legacies donations or bequests of any kind whatsoever for the use aforesaid so nevertheless that the yearly value of the Premises do not exceed the Sum of six thousand pounds Sterling[1] and therewith or otherwise to support and pay as the said Trustees or the major part of such of them as are regularly convened for that purpose shall agree the President Tutors and other Officers & Ministers of said Dartmouth College & also to pay all such Missionaries and Schoolmasters as shall be authorized appointed & employed by them for civilizing & christianizing & instructing the Indian Natives of this Land their several allowances & also their respective annual Salaries or allowances & all such necessary & contingent charges as from time to time shall arise & accrue relating to the said Dartmouth College And also to bargain sell let or assign Lands tenements or hereditaments goods, or chattels & all other things whatsoever by the name aforesaid in as full and ample a manner to all intents and purposes as a natural person or other body politick or corporate is able to do by the laws of our realm of Great Britain or of said province of New Hampshire And further of our special grace certain knowledge & mere motion to the intent that our said Corporation & body politick

[1] Subsequently amended so as to remove all limitations.

may answer the end of their erection & Constitution, & may have perpetual succession & continuance forever We do for us our heirs and Successors will give & grant unto the Trustees of Dartmouth College & to their Successors forever that there shall be once a year & every year a meeting of said Trustees held at said Dartmouth College at such time as by said Trustees or the major part of them at any legal meeting of said Trustees shall be agreed on the first meeting to be called by the said Eleazer Wheelock as soon as conveniently may be within one year next after the enrollment of these our Letters Patent at such time & place as he shall judge proper And the said Trustees or the major part of any seven or more of them shall then determine on the time for holding the annual Meeting aforesaid which may be alter'd as they shall hereafter find most convenient And we further order and direct that the said Eleazer Wheelock shall notify the time for holding said first meeting to be called as aforesaid by sending a letter to each of said Trustees & causing an advertizement thereof to be printed in the New Hampshire Gazette & in some publick News Paper printed in the Colony of Connecticut But in case of the Death or incapacity of the said Wheelock then such meeting to be notified in manner aforesaid by the Governor or Commander in Chief of our said Province for the time being And we do also for us our Heirs & successors hereby will give and grant unto the said Trustees of Dartmouth College aforesaid & to their Successors forever that when any seven or more of the said Trustees or their Successors are convened & met together for the service of said Dartmouth College at any time or times such seven or more shall be capable to act as fully & amply to all intents & purposes as if all the Trustees of said College were personally present — & all affairs & actions whatsoever under the care of the said Trustees shall be determined by the majority or greater number of those seven or more Trustees so convened & met together And we do further will ordain & direct that the President Trustees, Professors & Tutors & all such Officers as shall be appointed for the publick instruction & government of said College shall before they undertake the execution of their Offices or Trusts or within one year after take the Oaths & subscribe the declaration provided by an act of Parliament made in the first year of King George the first entitled "An act for the further security of his Majesty's Person & government & the succession of the Crown in the heirs of the late princess Sophia being Protestants, & for the extinguishing the hopes of the pretended Prince of Wales & his open & secret Abettors," that is to say the President before the Governor of our

said Province for the time being or by one by him impowered to that service or by the President of our said Council & the Trustees Professors Tutors & other Officers before the President of said College for the time being who is hereby impower'd to administer the same an entry of all which shall be made in the Records of said College. And we do for us our heirs & Successors hereby will give & grant full Power & Authority to the President hereafter by us named & to his Successors or in case of his failure to any three or more of the said Trustees to appoint other occasional meetings from time to time of the said seven Trustees or any greater number of them to transact any matter or thing necessary to be done before the next annual meeting and to order notice to the said seven or any greater number of them of the times & places of meeting for the service aforesaid by a letter under his or their hands of the same one month[1] before said meeting Provided always that no standing Rule or order be made or altered for the regulation of said College nor any President or Professor be chosen or displaced nor any other matter or thing transacted or done which shall continue in force after the then next annual meeting of said Trustees as aforesaid And further we do by these Presents for us our Heirs and Successors, create make constitute nominate & appoint our Trusty and well beloved ELEAZER WHEELOCK Doctor in Divinity the FOUNDER of said College to be PRESIDENT of said DARTMOUTH COLLEGE and to have the immediate care of Education & government of such Students as shall be admitted into said DARTMOUTH COLLEGE for instruction & education and do will give & grant to him in said Office full power authority & right to nominate appoint constitute & ordain by his last will such suitable & meet person or Persons as he shall chuse to succeed him in the Presidency of said Dartmouth College & the person so appointed by his last Will to continue in Office vested with all the powers priviledges Jurisdiction & authority of a President of said Dartmouth College that is to say so long and untill such appointment by said last Will shall be disapproved by the Trustees of said Dartmouth College And we do also for us our heirs and Successors will give & grant to the said Trustees of said Dartmouth College & to their Successors forever or any seven or more of them convened as aforesaid that in the case of the ceasing or failure of a President by any means whatsoever that the said Trustees do elect nominate & appoint SUCH qualified person as they or the major part of any seven or more of them convened for that purpose as

[1] Amended so that a legal meeting may be held at such time and upon such notice as may be prescribed by the rules of the Trustees.

above directed shall think fit to be PRESIDENT of said DARTMOUTH COLLEGE and to have the care of the Education & government of the Students as aforesaid & in case of the ceasing of a President as aforesaid the Senior Professor or Tutor being one of the Trustees shall exercise the Office of a President untill the Trustees shall make choice of & appoint a President as aforesaid & such Professor or Tutor or any three or more of the Trustees shall immediately appoint a meeting of the body of the Trustees for the purpose aforesaid AND also we do will give and grant to the said Trustees convened as aforesaid that they elect nominate & appoint so many Tutors and Professors to assist the President in the Education & government of the Students belonging thereto as they the said Trustees shall from time to time & at any time think needful & serviceable to the interests of said Dartmouth College And also that the said Trustees or their Successors or the major part of any seven or more of them convened for that purpose as above directed shall at any time displace & discharge from the service of said Dartmouth College any or all such Officers & elect others in their room & stead as before directed And also that the said Trustees or their successors or the major part of any seven of them which shall convene for that purpose as above directed do from time to time as occasion shall require elect constitute & appoint a TREASURER a CLERK an USHER & a Steward for the said DARTMOUTH COLLEGE & appoint to them & each of them their respective businesses & trusts & displace & discharge from the service of said College such Treasurer Clerk Usher or Steward & to elect others in their room & stead which Officers so elected as before directed We do for us our heirs & successors by these Presents constitute & establish in their respective Offices & do give to each & every of them full power & Authority to exercise the same in said Dartmouth College according to the directions & during the pleasure of the said Trustees as fully & freely as any like Officers in any of our Universities Colleges or Seminaries of learning in our Realm of Great Britain lawfully may or ought to do, & also that the said Trustees & their Successors or the major part of any seven or more of them which shall convene for that purpose as is above directed as often as one or more of said Trustees shall die or by removal or otherwise shall according to their judgement become unfit or incapable to serve the interests of said College do as soon as may be after the Death removal or such unfitness or incapacity of such Trustee or Trustees elect & appoint such Trustee or Trustees as shall supply the place of him or them so dying or becoming incapable to serve the

interests of said College & every Trustee so elected & appointed shall by virtue of these presents & such election & appointment be vested with all the Powers & priviledges which any of the other Trustees of said College are hereby vested with And we do further Will ordain & direct that from & after the expiration of Two years from the enrollment of these Presents such vacancy or vacancies as may or shall happen by death or otherwise in the aforesaid number of Trustees shall be filled up by election as aforesaid so that when such vacancies shall be filled up unto the complete number of TWELVE Trustees Eight[1] of the aforesaid whole number of the body of Trustees shall be resident and respectable Freeholders of our said Province of New Hampshire & seven of said whole number shall be Laymen. And we do further of our special grace certain knowledge and mere motion will give and grant unto the said Trustees of Dartmouth College that they and their Successors or the major part of any seven of them which shall convene for that purpose as is above directed may make & they are hereby fully impowered from time to time fully & lawfully to make and establish such Ordinances Orders & Laws as may tend to the good & wholesome government of the said College & all the Students & the several Officers & Ministers thereof & to the publick benefit of the same not repugnant to the Laws & Statutes of our Realm of GREAT BRITAIN or of this our Province of NEW HAMPSHIRE and not excluding any Person of any religious denomination whatsoever from free & equal liberty & advantage of Education or from any of the liberties and privileges or immunities of the said College on account of his or their speculative sentiments in Religion, & of his or their being of a religious profession different from the said Trustees of the said Dartmouth College And such Ordinances orders & Laws which shall as aforesaid be made We do by these presents for us our heirs & Successors ratify allow of, & confirm as good & effectual to oblige & bind all the Students & the several Officers & Ministers of the said College And we do hereby authorize & impower the said Trustees of Dartmouth College & the President Tutors & Professors by them elected & appointed as aforesaid to put such ordinances laws and orders in execution to all proper intents and purposes And we do further of our special grace certain knowledge & mere motion Will give & grant unto the said Trustees of said Dartmouth College for the encouragement of Learning and animating the Students of said College to diligence & industry & a laudable progress in Literature that they & their

[1] Subsequently amended so as to read *seven*.

Successors or the major part of any seven or more of them convened for that purpose as above directed do by the President of said College for the time being or any other deputed by them give & grant any such degree or degrees to any of the Students of the said College or any others by them thought worthy thereof as are usually granted in either of the Universities or any other College in our Realm of Great Britain & that they sign & seal Diplomas or certificates of such Graduations to be kept by the Graduates as perpetual memorials & testimonials thereof. AND we do further of our special grace certain knowledge & mere motion for us our heirs & Successors by these Presents give & grant unto the Trustees of said Dartmouth College & to their Successors that they & their Successors shall have a common SEAL under which they may pass all Diplomas or Certificates of degrees & all other affairs & business of & concerning the said College which shall be engraven in such a form and with such an inscription as shall be devised by the said Trustees for the time being or by the major part of any seven or more of them convened for the service of the said College as is above directed And we do further for us our heirs & Successors give and grant unto the said Trustees of the said Dartmouth College & their Successors or to the major part of any seven or more of them convened for the service of the said College full power & Authority from time to time to nominate & appoint all other Officers & Ministers which they shall think convenient & necessary for the service of the said College not herein particularly named or mention'd which Officers & Ministers we do hereby impower to execute their Offices & Trusts as fully & freely as any of the Officers & Ministers in our Universities or Colleges in our REALM of GREAT BRITAIN lawfully may or ought to do. AND further that the generous Contributors to the support of this design of spreading the knowledge of the only true God and Saviour among the American Savages may from time to time be satisfied that their liberalities are faithfully disposed of in the best manner for that purpose & that others may in future time be encouraged in the exercise of the like liberality for promoting the same pious design it shall be the duty of the President of the said Dartmouth College & of his Successors annually or as often as he shall be thereunto desired or required to transmit to the Right honorable, honorable & worthy Gentlemen of the Trust in England before mentioned a faithful account of the improvement & disbursements of the several Sums he shall receive from the Donations & bequests made in England through the hands of said Trustees & also advise them of the general plans

laid and prospects exhibited as well as a faithful account of all remarkable occurrences in order if they shall think expedient that they may be published And this to continue so long as they shall perpetuate their board of Trust & there shall be any of the Indian Natives remaining to be proper Objects of that Charity AND lastly our express Will & pleasure is and we do by these presents for us our heirs and Successors give & grant unto the said Trustees of Dartmouth College & to their Successors forever that these our Letters Patent or the enrollment thereof in the SECRETARY'S Office of our Province of New Hampshire aforesaid shall be good & effectual in the Law to all intents & purposes against us our heirs and Successors without any other License Grant or Confirmation from us our heirs & successors hereafter by the said Trustees to be had & obtained notwithstanding the not writing or misrecital not naming or misnaming the aforesaid Offices Franchises Priviledges Immunities or other the Premises or any of them and notwithstanding a writ of Ad quod Damnum hath not issued forth to enquire of the Premises or any of them before the ensealing hereof any Statute Act Ordinance or Provision or any other matter or thing to the contrary notwithstanding TO HAVE AND TO HOLD ALL & singular the Privileges Advantages Liberties Immunities and all other the Premises herein & hereby granted & given or which are meant mentioned or intended to be herein & hereby given and granted unto them the said TRUSTEES of DARTMOUTH COLLEGE and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent and the publick Seal of our said Province of NEW HAMPSHIRE to be hereunto affixed WITNESS our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our said Province &c^{a}. this THIRTEENTH day of December in the Tenth year of our Reign and in the year of our Lord one thousand seven hundred and Sixty nine.

By his Excellency's Command
with advice of Council

THEODORE ATKINSON, Sec'y

Province of New Hampshire Decembr 18th 1769.
Recorded in the book of Charters
Lib: 4° Fol. 22 to 23 both inclusive.

Per

THEODORE ATKINSON, SEC'Y

JOHN WENTWORTH.

HISTORICAL NOTE

DARTMOUTH COLLEGE is the outgrowth of a school which the Reverend Eleazer Wheelock opened in his home at Lebanon, Conn., December 18, 1754, for the Christian education of Indian youth. The school was known as Moor's Indian Charity School, so named from Joshua Moor, who contributed a house and two acres of land.

Funds for the maintenance of the school were received from various sources, — from private individuals, from the General Courts of Massachusetts Bay and of New Hampshire, and from Great Britain, where the enterprise had awakened the deepest interest. From the latter source an endowment was secured, chiefly through the efforts of Samson Occom, the Indian preacher, one of Dr. Wheelock's students, who was commissioned to make a tour of England and Scotland for this purpose in 1765. The sum of ten thousand pounds was thus raised, and committed to the charge of a board of trustees with the Earl of Dartmouth at its head. As the result of this endowment it was determined by Dr. Wheelock to enlarge the purpose of the school especially to reach "a greater proportion of English youth," and to change its location. Various proposals for a site were made, but after careful investigation the site chosen was the township of Hanover, in the region of Cowas or Coös, in the province of New Hampshire. Apart from the nearness of this site to the Canadian Indians, the determining reason for the choice seems to have been the attractiveness of the location, and the fact that it was the natural center of "more than two hundred towns, chartered, settled, or about to be settled." Removal to the Province of New Hampshire also gave the assurance of a charter, which it had thus far been difficult to obtain.

The draft of the charter prepared by Dr. Wheelock received important modifications from the Governor of the Province, John Wentworth. In particular he rejected the suggestion of a coördinate board of trustees in Great Britain; he gave to the college the name of Lord Dartmouth, its most active patron in Great Britain, although Wheelock had proposed to the Governor to call it by the name of Wentworth; and instead of incorporating it as a "school" or "academy," he

adopted a hint from Wheelock's postscript and made it a "college." The first board of trustees consisted of the Governor with three of his council, the speaker of the New Hampshire House of Representatives, one member of the Connecticut Colonial government, and six Connecticut clergymen selected by Dr. Wheelock.

Dr. Wheelock was elected president of the college, with Mr. Bezaleel Woodward, a graduate of Yale in 1764, as his associate. The first class of four students was graduated in 1771, the Commencement being attended by the Governor of the Province of New Hampshire and a company of gentlemen from Portsmouth, who made their way in part through almost trackless forests.

Two events in the early history of the college materially affected its character and growth. First, the gradual withdrawal of the support of its patrons in Great Britain, whose interest lay chiefly in the education of Indians; second, the lawsuit between the college and the state of New Hampshire for the control of the college, which resulted in a final decision by the Supreme Court of the United States in favor of the Trustees of Dartmouth College. The decision in "The Dartmouth College Case" was rendered in February, 1819. Since the reëstablishment of the college by this decision, its history has followed the general course of educational progress in New England.

Other institutions have from time to time been associated with or incorporated into the college.

Moor's Indian Charity School was made an independent institution when the college was founded. The school was maintained as late as 1849. It still has a legal existence with the title — "The President of Moor's Charity School." The trustees are the same in person with those of the college, though forming a separate corporation.

The Dartmouth Medical School dates from the establishment in 1798 of a professorship of medicine in the college, first filled by Dr. Nathan Smith, who was instrumental in its establishment. The school is under the general control of the Trustees of Dartmouth College, by which body degrees are conferred, but the management of its affairs is committed to the Medical Faculty. Associated with the Medical College is the Mary Hitchcock Hospital (1893), the memorial gift of Hiram Hitchcock, Esq., of Hanover.

The Chandler School of Science and the Arts, established in 1851 by a resolution of the trustees, in acceptance of a sum bequeathed to them in trust by Abiel Chandler, Esq., "for the establishment and support of a permanent department or school of instruction in the col-

lege, in the practical and useful arts of life," was more formally incorporated into the College by the joint action of the Trustees of the College and the Visitors of the Chandler School in 1893, and is now known as the Chandler Scientific Course in the College, leading to the degree of B.S.

The Thayer School of Civil Engineering, established in 1867 by the bequest of General Sylvanus Thayer, Class of 1807, is essentially a graduate school, covering a course of two years, and conferring the degree of Civil Engineer. The funds of the School are in charge of the Trustees of the College; otherwise its affairs are managed by a board of overseers, which is a close corporation.

The Amos Tuck School of Administration and Finance, established in 1900 by Mr. Edward Tuck, Class of 1862, as a memorial to his father, Honorable Amos Tuck, Class of 1835, a Trustee of the College, 1857 to 1866, is also a graduate school covering a course of two years. It is the object of the School to train college graduates who desire to engage in affairs rather than to enter the professions. The School is administered by the Trustees of the College.

The presidency of the college has been held as follows:

Eleazer Wheelock, 1769–1779.
John Wheelock, 1779–1815.
Francis Brown, 1815–1820.
Daniel Dana, 1820–1821.
Bennett Tyler, 1821–1828.
Nathan Lord, 1828–1863.
Asa Dodge Smith, 1863–1877.
Samuel Colcord Bartlett, 1877–1892.
William Jewett Tucker, 1893–.

DARTMOUTH COLLEGE

TRUSTEES OF DARTMOUTH COLLEGE

AND OF MOOR'S CHARITY SCHOOL

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
WILLIAM MARTIN CHASE, LL.D. . . . *Concord, N. H.*
Clerk of the Board.
HIS EXCELLENCY JOHN McLANE, A.M. (*ex officio*)
Milford, N. H.
FRANK SHERWIN STREETER, A.B. . . *Concord, N. H.*
CHARLES FREDERICK MATHEWSON, LL.B.
New York, N. Y.
BENJAMIN AMES KIMBALL, B.S. . . . *Concord, N. H.*
JOHN ROBIE EASTMAN, PH.D. . . . . *Andover, N. H.*
MELVIN OHIO ADAMS, A.M. . . . . *Boston, Mass.*
HENRY HOYT HILTON, A.M. . . . . *Chicago, Ill.*
FRANCIS BROWN, D.D., D.LITT. (OXON.) *New York, N. Y.*
SAMUEL LELAND POWERS, A.B. . . . . *Newton, Mass.*
ROBERT MOORE WALLACE, A.B. . . . . *Milford, N. H.*

EX OFFICIO TRUSTEES OF THE COLLEGE IN RELATION TO FUNDS GIVEN BY THE STATE OF NEW HAMPSHIRE

COUNCILLORS

HON. FRED S. TOWLE . . . . . *Portsmouth, N. H.*
HON. CHARLES M. FLOYD . . . . . *Manchester, N. H.*
HON. JOSEPH W. HOWARD . . . . . *Nashua, N. H.*
HON. EDWARD G. LEACH . . . . . *Franklin, N. H.*
HON. CHARLES H. GREENLEAF . . . . . *Franconia, N. H.*

THE PRESIDENT OF THE SENATE

HON. GEORGE H. ADAMS . . . . . *Plymouth, N. H.*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

HON. RUFUS N. ELWELL . . . . . *Exeter, N. H.*

THE CHIEF JUSTICE OF THE SUPREME COURT

HON. FRANK N. PARSONS . . . . . *Franklin, N. H.*

VISITORS ON THE CHANDLER FOUNDATION

DAVID HERBERT ANDREWS, B.S. . . . *Newton Centre, Mass.*

ROBERT GORDON PIKE, B.S. . . . . *Dover, N. H.*

CHARLES PARKER CHASE, A.M. . . . . *Hanover, N. H.*
Treasurer of the College

ERNEST MARTIN HOPKINS, A.B. . . . . *Hanover, N. H.*
Secretary of the College

STANDING COMMITTEES OF THE TRUSTEES

COMMITTEE ON FINANCE,
Messrs. Kimball, Chase, Mathewson, Streeter, Adams.

ON INSTRUCTION AND EQUIPMENT,
Messrs. Eastman, Brown, Hilton, Wallace.

ON BUILDINGS AND IMPROVEMENTS,
Messrs. Streeter, Kimball, Adams, Mathewson, Powers.

ON DEGREES,
Messrs. Mathewson, Eastman, Brown.

ON RELATION OF COLLEGE TO STATE,
Messrs. Streeter, Kimball, Wallace.

ON RELATION OF COLLEGE TO ALUMNI,
Messrs. Adams, Mathewson, Hilton.

ON LEGAL MATTERS,
Messrs. Chase, Streeter, Powers.

The President of the College is a member *ex officio* of the Committee on Finance, on Instruction and Equipment, on Buildings and Improvements, and on Degrees.

THE COLLEGE ADMINISTRATION

PRESIDENT — William Jewett Tucker — Administration Building, 10 A.M. to 12 M., each week day.

ACTING PRESIDENT — John King Lord.

TREASURER — Charles Parker Chase — Bank Building, 9.30 to 11.30 A.M., 1.30 to 2.30 P.M., each week day.

SECRETARY OF THE COLLEGE — Ernest Martin Hopkins — Administration Building, 9 A.M. to 12 M., each week day, 1.30 to 3.00 P.M., each week day except Saturday.

DEAN OF ACADEMIC FACULTY — Charles Franklin Emerson — Administration Building, 9.45 to 11.45 A.M., each week day; other times by appointment.

REGISTRAR — Howard Murray Tibbetts — Administration Building, 10 to 11.30 A.M., each week day, 1.30 to 2.30 P.M., each week day except Saturday.

CHAIRMAN OF COMMITTEE ON GRADUATE INSTRUCTION — William Patten — 15 Webster Ave.

LIBRARIAN — Marvin Davis Bisbee — Wilson Hall, 9 to 12 A.M., 1 to 5 P.M, each week day.

MEDICAL DIRECTOR — Howard Nelson Kingsford — Bank Building, 7 to 8 P.M., Tuesdays and Thursdays; other week days 4.30 to 6 P.M.

SUPERINTENDENT OF BUILDINGS — Edgar Hayes Hunter — Administration Building, 8 A.M. to 12 M., each week day, 1 to 5 P.M., each week day except Saturday.

SECRETARY OF COLLEGE CLUB — Ernest Martin Hopkins — College Hall, 1 to 2 P.M., each week day.

OFFICERS OF ADMINISTRATION AND INSTRUCTION.[1]

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
43 College St.

JOHN KING LORD, PH.D., ACTING PRESIDENT *of the Faculty in the absence of the President.* 37 College St.

CHARLES FRANKLIN EMERSON, A.M., DEAN *of the Academic Faculty.* 30 N. Main St.

CHARLES HENRY HITCHCOCK, PH.D., LL.D., *Hall Professor of Geology and Curator of Butterfield Museum.*
15 E. Wheelock St.

GABRIEL CAMPBELL, M.PD., D.D., *Stone Professor of Intellectual and Moral Philosophy.* 29 N. Main St.

JOHN KING LORD, PH.D., *Daniel Webster Professor of the Latin Language and Literature.* 37 College St.

FRANK ASBURY SHERMAN, M.S., *Professor of Mathematics on the Chandler Foundation.* 37 N. Main St.

CHARLES FRANCIS RICHARDSON, PH.D., *Winkley Professor of the English Language and Literature.* 6 School St.
(On leave of absence for the year.)

MARVIN DAVIS BISBEE, B.D., *Librarian and Professor of Bibliography.* 11 W. Wheelock St.

THOMAS WILSON DORR WORTHEN, A.M., *Cheney Professor of Mathematics.* 11 Webster Ave.

EDWIN JULIUS BARTLETT, A.M., M.D., *New Hampshire Professor of Chemistry.* 8 W. Wheelock St.

JAMES FAIRBANKS COLBY, A.M., LL.D., *Parker Professor of Law and Political Science.* 2 Elm St.

JOHN VOSE HAZEN, C.E., *Woodman Professor of Civil Engineering and Graphics on the Chandler Foundation.*
33 N. Main St.

[1] Arranged, with the exception of the President, Acting President, and Dean, according to Academic Seniority.

CHARLES DARWIN ADAMS, PH.D., *Lawrence Professor of the Greek Language and Literature.* 1 N. Park St.

JUSTIN HARVEY SMITH, A.M., *Professor of Modern History.* The Hanover Inn.

(On leave of absence for second semester.)

CHARLES HENRY MORSE, MUS. BAC., *Musical Director.* The Hanover Inn.

DAVID COLLIN WELLS, A.B., *Professor of Sociology.* 26 Occom Ridge.

ROBERT LONGLEY TAYLOR, PH.D., *Assistant Professor of French.* Norwich, Vt.

WILLIAM PATTEN, PH.D., *Professor of Biology (Zoölogy).* 15 Webster Ave.

GEORGE DANA LORD, A.M., *Associate Professor of Greek and of Greek Archæology.* 46 College St.

HERBERT DARLING FOSTER, A.M., *Professor of History.* 9 Webster Ave.

FRANK GARDNER MOORE, PH.D., *Associate Professor of Latin and of Roman Archæology.* 1 Occom Ridge.

WARREN AUSTIN ADAMS, PH.D., *Professor of German.* 16 Occom Ridge.

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.* 13 Webster Ave.

LOUIS HENRY DOW, A.M., *Professor of French.* 2 Occom Ridge.

HARRY EDWIN BURTON, PH.D., *Professor of Latin.* 5 Occom Ridge.

JOHN HIRAM GEROULD, PH.D., *Assistant Professor of Biology (Zoölogy).* 8 W. South St.

GEORGE RAY WICKER, PH.D., *Assistant Professor of Economics.* Lyme Road.

AMBROSE WHITE VERNON, A.M., *Professor of Biblical Literature on the Phillips Foundation.* 10 School St.

FRANK HAIGH DIXON, PH.D., *Professor of Economics.* 24 Occom Ridge.

GORDON FERRIE HULL, PH.D., *Appleton Professor of Physics.* 4 W. Wheelock St.

ERNEST FELIX LANGLEY, A.M., *Assistant Professor of the Romance Languages (French and Italian).* 27 E. Wheelock St.

ASHLEY KINGSLEY HARDY, PH.D., *Assistant Professor of German and Instructor in Old English.* 4 Clement Road.

GEORGE RICHARD LYMAN, PH.D., *Assistant Professor of Biology* (*Botany*). 3 Elm St.

HERMAN HARRELL HORNE, PH.D., *Professor of Philosophy.* (On leave of absence for the year.)

RICHARD WELLINGTON HUSBAND, A.M., *Assistant Professor of Greek and of Classical Philology.* (On leave of absence for the year.)

NORMAN EVERETT GILBERT, PH.D., *Assistant Professor of Physics.* 4 W. Wheelock St.

CRAVEN LAYCOCK, A.B., *Assistant Professor of Oratory on the Evans Foundation.* 18 Occom Ridge.

SIDNEY BRADSHAW FAY, PH.D., *Assistant Professor of History.* 48 College St.

PRESCOTT ORDE SKINNER, A.M., *Assistant Professor of the Romance Languages* (*French and Spanish*). 24 N. Main St.

CHESTER NATHAN GOULD, A.M., *Instructor in German.* (On leave of absence for the year.)

WILLIAM KILBORNE STEWART, A.M., *Instructor in German.* 35 N. Main St.

CHARLES ERNEST BOLSER, PH.D., *Instructor in Chemistry.* 15 E. Wheelock St.

JOHN MERRILL POOR, PH.D., *Assistant Professor of Astronomy.* 9 N. Park St.

GEORGE BENSON WESTON, A.M., *Instructor in the Romance Languages* (*French and Spanish*). 27 N. Main St.

HARLOW STAFFORD PERSON, PH.D., *Assistant Professor of Commerce and Industry.* 15 N. Park St.

WARREN MILTON PERSONS, B.S., *Assistant Professor of Economics.* 30 N. Main St.

HOMER EATON KEYES, B.L., *Assistant Professor of Modern Art, and Instructor in English.* The Hanover Inn.

LEON BURR RICHARDSON, A.M., *Instructor in Chemistry.* 11 N. Park St.

ERNEST BRADLEE WATSON, A.B., *Instructor in English.* 4 W. Wheelock St.

ERNEST RUTHERFORD GROVES, A.B., *Instructor in English.*
20 Occom Ridge.

RALPH MARTIN BARTON, A.B., *Instructor in Mathematics.*
9 Pleasant St.

JOHN WILLIAM BOWLER, M.D., *Assistant Professor of Hygiene and Physical Culture, and Director of the Gymnasium.*
22 Occom Ridge.

LEMUEL SPENCER HASTINGS, A.B., B.D., *Instructor in English.*
10 College St.

ERNST OTTO ECKELMANN, PH.D., *Instructor in German.*
20 Occom Ridge.

CHARLES HUGHES JOHNSTON, PH.D., *Instructor in Philosophy.*
52 S. Main St.

WILLIAM THOMPSON ATWOOD, LL.B., *Instructor in Political Science.*
The Hanover Inn.

AUGUSTUS HUNT SHEARER, PH.D., *Instructor in History.*
4 W. Wheelock St.

GAETANO CAVICCHIA, A.B., *Instructor in French and Spanish.*
3 School St.

ARTHUR HOUSTON CHIVERS, A.M., *Instructor in Biology.*
15 N. Park St.

FRANK COCHRANE MOORE, A.B., *Instructor in Mathematics.*
4 W. Wheelock St.

WILLIAM HENRY MURRAY, A.B., *Instructor in French.*
41 S. Main St.

ROBERT McBURNEY MITCHELL, A.B., *Instructor in German.*
4 W. Wheelock St.

EUGENE RICHARD MUSGROVE, B.S., *Assistant in English.*
17 S. Main St.

GEORGE WILLIAM PUTNAM, A.B., *Assistant in Greek.*
20 S. Main St.

ETTA MATTOCKS NEWELL, *Assistant Librarian.*
The Hanover Inn.

HOWARD NELSON KINGSFORD, M.D., *Medical Director.*
6 Clement Road.

HOWARD MURRAY TIBBETTS, A.B., *Registrar.*
4 Wentworth St.

ARTHUR PERRY FAIRFIELD, A.B., *Manager of The Hanover Inn and Comptroller of the College Dining Association.* The Hanover Inn.

ERNEST MARTIN HOPKINS, A.B., *Secretary of the College Club.* 14 College Hall.

EDGAR HAYES HUNTER, C.E., *Superintendent of Buildings.* 1 Elm St.

AZRO KARL SKINNER, A.B., *Secretary of the Dartmouth Christian Association.* 10 College Hall.

LEON WINFIELD WEBSTER, A.B., *Assistant in the Dean's Office.* 4 Wentworth St.

HARRY GAY FLETCHER, *Assistant Superintendent of Buildings.* The Hanover Inn.

HAROLD GODDARD RUGG, A.B., *Library Accountant and Secretary.* 23 S. Main St.

HARVEY FOSS WHITTEMORE, A.B., *Superintendent of Reference Rooms.* 2 Bartlett Hall.

STANDING COMMITTEES OF THE FACULTY

NOMINATIONS — Professors Colby (chairman), Foster, Fay.

ADMINISTRATION — The President, the Acting President, the Dean, Professor Wells (Senior class-officer), Professor Lyman (Junior class-officer), Professor C. D. Adams (Sophomore class-officer), Professor Burton (Freshman class-officer).

ADMISSION — Professors Sherman (chairman), J. K. Lord, Taylor, Foster, Hardy, Gilbert, the Dean (*ex-officio*).

INSTRUCTION — Professors Emery (chairman), Worthen, Wicker, Vernon, Langley, Gilbert, Gerould, Mr. L. B. Richardson, the Dean (*ex-officio*).

LIBRARY — Professors Dixon (chairman), Bisbee, Hitchcock, G. D. Lord, Hardy, Fay, Skinner, Poor.

ATHLETICS — Professors Bartlett (chairman), Laycock, Dr. Bolser.

NON-ATHLETIC ORGANIZATIONS — Professors Dow (chairman), Poor, Mr. Weston.

GRADUATE INSTRUCTION — Professors Patten (chairman), Campbell, Taylor, G. D. Lord, Moore, Hull, Person.

REGULATIONS — Professors Moore (chairman), Sherman, Gilbert, Mr. Stewart, the Dean (*ex-officio*).

COMMENCEMENT — Professors Laycock (chairman), Wells, W. A. Adams, Keyes.

STUDENTS

FELLOW

Moore, Chester Newell, B.S. 1905, *Berlin, Germany.*

GRADUATE STUDENTS

Name	Residence	Room
Adams, Franklin Launcelot	*Franklin, Mass.*	W. Wilder Hall
A.B. Boston University, 1900. Physics: *Assistant in Laboratory.*		
Adriance, Robert Irving	*Winchester, Mass.*	XΦ House
A.B. 1906. History: *Assistant.*		
Bowlby, Noble Oscar	*Wilder, Vt.*	Wilder, Vt.
A.B. 1906. Philosophy.		
Burtch, John Jay	*Chicago, Ill.*	14 W. Wheelock St.
A.B. 1906. Economics: *Assistant.*		
Childs, Francis Lane	*Henniker, N. H.*	2 Bartlett Hall
A.B. 1906. English.		
Cooke, Randall Bradford	*East Whitman, Mass.*	10 College St.
A.B. 1906. Latin.		
Cromwell, John Wesley, Jr.	*Washington, D. C.*	5 Elm House
A.B. 1906. Astronomy.		
Fletcher, Walter Holden	*Concord, N. H.*	23 N. Main St.
A.B. 1900. Latin.		
Guyer, Foster Erwin	*Hyannis, Mass.*	4 College St.
A.B. 1906. French.		
Heald, Franklin	*Hanover, N. H.*	6 W. South St.
B.S. 1897. Pedagogy.		
Heyhoe, Albert George	*Hanover, N. H.*	3 Maple St.
A.B. 1906. Philosophy: *Assistant.*		
Kelley, Arthur Olin	*Franklin Falls, N. H.*	10 College St.
A.B. 1906. Biology: *Assistant in Laboratory.*		
Lillard, Walter Huston	*St. Louis, Mo.*	38 College St.
B.S. 1905. English.		
Sheard, Charles	*Canton, N. Y.*	V. Wilder Hall
A.B. St. Lawrence University, 1903. Physics: *Assistant in Laboratory.*		
Whittemore, Harvey Foss	*Framingham, Mass.*	2 Bartlett Hall
A.B. 1906. Languages: *Assistant in Library.*		

NON-RESIDENT GRADUATE STUDENTS

Name	Residence
Cogswell, Mariana	*Wellesley, Mass.*
A.B. Wellesley, 1890. Greek, Latin.	
Davis, Robert Meacham	*Newton, Mass.*
A.B. 1903. Philosophy.	
Gentleman, Frederick William	*Lynn, Mass.*
A.B. 1901. Mathematics.	
Griggs, Leland	*Crete, Neb.*
A.B. 1902. Biology.	
Hodgman, Charles Davis	*Cleveland, O.*
B.S. 1905. Physics.	
Moulton, Arthur Bertram	*Limington, Me.*
A.B. 1896. Psychology, Sociology.	
Moulton, Sherman Roberts	*Burlington, Vt.*
A.B. 1898. Law, Political Science.	
Phillips, John Lewis	*Andover, Mass.*
A.B. 1894. Latin.	
Preston, Harry Boynton	*Meriden, N. H.*
A.B. 1905. History.	
Roberts, Arthur Stanley	*Newport, R. I.*
A.B. 1900. Greek.	
Ruggles, Arthur Hiler	*Providence, R. I.*
A.B. 1902. M.D. Harvard, 1906. Psychology.	
White, Carroll Henry	*Barre, Vt.*
B.S. 1896. Philosophy.	
Wilson, Earle Elwin	*Corinth, Vt.*
A.B. 1903. Philosophy, Pedagogy.	

UNDERGRADUATES

SENIORS

Name	Residence	Room
Ahern, William Joseph, Jr.	*Concord, N. H.*	6 Fayerweather
Andrews, Walter Raymond	*Newton Centre, Mass.*	1 Wheeler
Ashley, Edward Lester	*South Royalton, Vt.*	23 College
Averill, Hiram Harrison	*Barre, Vt.*	20 Reed
Baldwin, Fred Harold	*Somerville, Mass.*	20 Sanborn
Barker, Edward Bell	*Pittsfield, N. H.*	23 Crosby
Barnes, Samuel Lawrence	*Danvers, Mass.*	C. & G. House
Bartlett, James Agard	*Rockford, Ill.*	1 College
Bartlett, Samuel Colcord	*Hanover, N. H.*	8 W. Wheelock St.

Name	Residence	Room
Beals, Charles Elmer	*Royalton, Vt.*	9 College St.
Berry, Lester Stiles	*St. Johnsbury Centre, Vt.*	20 Crosby
Billings, Warren Chesbrough	*Milford, N. H.*	34 Wheeler
Black, Dennis Leo	*Nashua, N. H.*	10 W. South St.
Blaisdell, John Harper	*Winchester, Mass.*	12, 13 Hubbard
Blake, Henry Cleveland	*South Paris, Me.*	Δ T Δ House
Blythe, Harry Randolph	*Aurora, Ill.*	19 Sanborn
Bourne, Arthur Israel	*Lowell, Mass.*	7 New Hubbard
Boyer, Francis Burleigh	*Somersworth, N. H.*	15 Sanborn
Brock, Timothy Wolcott	*North Conway, N. H.*	28 Reed
Brooks, Eugene Childs	*Cambridge, Mass.*	1 Proctor
Brown, Allan	*Concord, Mass.*	14 Wheeler
Brown, Ray Wilbur	*Fall River, Mass.*	3 Bartlett
Burns, David Francis	*Hyde Park, Mass.*	27 New Hubbard
Burns, James Alexander	*Cambridge, Mass.*	Davison Block
Chase, Philip Hartly	*Hanover, N. H.*	38 College St.
Churchill, Perley Walter	*Berlin, N. H.*	15 Hallgarten
Churchill, Wendall Herman	*Berlin, N. H.*	15 Hallgarten
Clough, Walter Hayden	*Lawrence, Mass.*	2 Elm
Coburn, Joseph Marshall	*Roxbury, Mass.*	16 Wentworth
Cochrane, Robert Carlyle	*Somerville, Mass.*	5 Proctor
Colby, Will Guy	*Franklin, N. H.*	27 N. Main St.
Cone, John Henry	*West Hartford, Vt.*	8 Lebanon St.
Coombs, Norman Charles	*Oak Park, Ill.*	C. & G. House
Crocker, John Franklin, Jr.	*Cambridge, Mass.*	1 Proctor
Cummings, Willard Howe	*Orizaba, Mexico*	4 Crosby
Cushman, Norman Locke	*Arlington, Mass.*	6 Proctor
Davis, Nathaniel Francis	*Davisville, N. H.*	2 Sanborn
Davis, Orlando Chester	*Lowell, Mass.*	1 N. Park St.
Downey, John Eustis	*Newtonville, Mass.*	6 Proctor
Dudley, Guy Earle	*Waterford, Me.*	12 Sanborn
Early, Philip Austin	*Newton Lower Falls, Mass.*	2 Crosby
Ellsworth, Clarence Eugene	*Wentworth, N. H.*	9 W. South St.
Farrington, Jeremiah Arthur	*Portsmouth, N. H.*	47 Fayerweather
Field, Thomas Sullivan	*Nashua, N. H.*	Dragon House
Fields, Charles Weeks	*Bristol, N. H.*	19 Reed
Filiau, Clarence George	*Hanover, N. H.*	30 Lebanon St.
Fish, Harold Dufur	*South Royalton, Vt.*	44 Fayerweather
Foster, Fred Emerson	*Concord, N. H.*	12 Crosby
Fowler Earle Bloodgood	*Oak Park, Ill.*	5 Proctor
Frost, Ernest Howard	*Brockton, Mass.*	Δ T Δ House
Gallagher, Morrill Allen	*Roxbury, Mass.*	15 New Hubbard
Garby, William Frank	*Walpole, Mass.*	25 Wheeler
Garvin, Samuel Francis	*Sanbornville, N. H.*	2 Sanborn
Gerry, Louis Cardell	*Hyde Park, Mass.*	K Σ House

Name	Residence	Room
Gillette, Jean Duane	*Antwerp, N. Y.*	1 Wentworth
Glattfeld, John William Edward	*Quincy, Ill.*	Davison Block
Glaze, Ralph	*Denver, Colo.*	15 New Hubbard
Goode, Richard Henry	*Somerville, Mass.*	20 New Hubbard
Gray, Harry Matt	*Chicopee, Mass.*	28 Reed
Grebenstein, George Warren	*Cambridge, Mass.*	1 Proctor
Greenleaf, Fred Bacon	*Auburn, Me.*	27 Richardson
Hale, Samuel, Jr.	*Dover, N. H.*	Dragon House
Haley, Henry Thomas	*Roslindale, Mass.*	Dragon House
Hammond, John Wilkes, Jr.	*Cambridge, Mass.*	5 Crosby
Harris, Julian Chapin	*Deerfield, Mass.*	6 Richardson
Hart, John Shelley	*Racine, Wis.*	4 College
Hathaway, Charles Henry	*Malden, Mass.*	C. & G. House
Hayes, Reuben	*Dover, N. H.*	4 Hubbard
Hazen, Conrad Philip	*Norwich, Vt.*	Norwich, Vt.
Hazen, Richard	*Wilder, Vt.*	4 College
Heneage, Harry Robert	*Oak Park, Ill.*	C. & G. House
Herrick, Ralph Crosby	*Winchester, Mass.*	X Φ House
Hiestand, Dwight Willard	*Chicago, Ill.*	16 College
Hill, Herman Henry	*Chelmsford, Mass.*	31 Reed
Hinman, Herbert Davis	*Groveton, N. H.*	3 Bartlett
Holmes, Arthur Dunham	*Walpole, N. H.*	40 S. Main St.
Howard, George Henry	*Craftsbury, Vt.*	4 Hubbard
Howard, Henry Dwight, Jr.	*South Londonderry, Vt.*	9 College St.
Howard, McKay Sylvander	*West Lebanon, N. H.*	17 Wheeler
Hoyt, George Herbert	*Hyde Park, Mass.*	K Σ House
Jamison, George Harold	*Oelwein, Ia.*	14 Sanborn
Jennings, William	*Somerville, Mass.*	18 Crosby
Jewett, John Vernon	*Danvers, Mass.*	19 Hallgarten
Jordan, John Harold	*Brighton, Mass.*	Dragon House
Judson, Howard Monroe	*Galesburg, Ill.*	Φ Δ Θ House
Just, Ernest Everett	*Charleston, S. C.*	28 Hallgarten
Kelley, Harry George	*Omaha, Neb.*	4 College
Kennedy, Walter Gardner	*Harwichport, Mass.*	5 Proctor
Kenyon, Robert Dexter	*Dorchester, Mass.*	18 Sanborn
Kibling, Alfred Lorenzo	*West Lebanon, N. H.*	21 School St.
Kimball, William Rice	*Oak Park, Ill.*	25 College
King, George Matthew	*Portsmouth, N. H.*	13 Hallgarten
Kitching, Albert Harper	*Melrose, Mass.*	X Φ House
Knapp, Merton Clark	*Keene, N. H.*	40 S. Main St.
Knight, Nathaniel Hobbs	*North Berwick, Me.*	1 S. Park St.
Knight, Ralph Gardner	*Randolph, Mass.*	34 Reed
Lane, Henry Richardson	*Chicago, Ill.*	C. & G. House
Langley, Clarence Erwin	*Wolfboro, N. H.*	9 College St.
Leavitt, Arthur Howland	*Spencer, Mass.*	20 Fayerweather

Name	Residence	Room
Leighton, Walter Martin	*Haverhill Mass.*	1 S. Park St.
Lena, Fred Thomas	*Lawrence, Mass.*	28 Sanborn
Leonard, Edward Henry	*Boston, Mass.*	2 Wentworth
Lewis, Robert Park Morrison	*Lawrence, Mass.*	4 Thornton
Luberger, Charles Frederick, Jr.	*Cedar Rapids, Ia.*	Dragon House
Lyon, Robert Isaac	*Washington, D. C.*	12 Sanborn
McCoy, Wallis Angus	*Somerville, Mass.*	K K K House
Macdonald, Jerome Ambrose	*South Boston, Mass.*	K Σ House
McKendree, Charles Alphonso	*Manchester, N. H.*	1 Bartlett
McLane, John Roy	*Milford, N. H.*	12 Crosby
Mahoney, Joseph Courtney	*Millers Falls, Mass.*	2 Wentworth
Main, Charles Reed	*Winchester, Mass.*	X Φ House
Martin, William Alonzo, Jr.	*Springfield, O.*	Shurtleff House
Maxfield, Claude Bentley	*Mt. Sunapee, N. H.*	10 Wentworth
Minsch, William Joseph	*Worcester, Mass.*	19 Sanborn
Mitchell, George Henry	*Lowell, Mass.*	11 W. South St.
Mullins, Roy	*Baldwinville, Mass.*	9 College St.
Mulvanity, John Joseph	*Nashua, N. H.*	10 W. South St.
Nesmith, Walter Scott	*Goffstown, N. H.*	W. Wilder
Nickerson, Albion Ross	*Swanville, Me.*	18 Sanborn
Niles, Harold Louville	*Wellesley Farms, Mass.*	18 Crosby
Norris, Clifford Eaton	*Plympton, Mass.*	44 College St.
Oliphant, Harold Duncan	*Methuen, Mass.*	2 Thornton
O'Neill, James Milton	*Canandaigua, N. Y.*	33 Wheeler
Paris, Urias George	*Sandy Hill, N. Y.*	K K K House
Parker, Harold	*Portsmouth, N. H.*	19 Fayerweather
Pearson, Robert Houghton	*Concord, N. H.*	5 Crosby
Peck, Russell Hastings	*Mt. Vernon, N. H.*	6 College St.
Pelren, Harry Joseph	*Concord, N. H.*	13 Crosby
Perkins, Ralph Sherburne	*Pittsfield, N. H.*	19 Maple St.
Perry, Thomas Daniel	*Burlington, Vt.*	Dragon House
Pierce, Carlos Thornton	*Newton Centre, Mass.*	1 Wheeler
Piper, Jonathan	*Stratham, N. H.*	8 College St.
Plummer, Curtis	*Brookline, Mass.*	C. & G. House
Pond, Bremer Whidden	*Winchester, Mass.*	X Φ House
Porter, Harry Woodbury	*Oldtown, Me.*	19 Fayerweather
Post, Roswell Olcott, Jr.	*Jacksonville, Ill.*	33 Reed
Prichard, Reuben Parker	*Somerville, Mass.*	Dragon House
Prouty, Ira Humphrey	*Keene, N. H.*	Φ Δ Θ House
Putnam, Boyd Wason	*Lowell, Mass.*	20 Crosby
Redington, Theodore Towne	*Evanston, Ill.*	12 Crosby
Reilly, James Crowley	*Lowell, Mass.*	6 Proctor
Reilly, Thomas Edward	*Randolph, Mass.*	34 Reed
Rice, Charles Arthur Allingham	*Springfield, Mass.*	19 Richardson
Richards, Earl Thomas	*Holyoke, Mass.*	27 College
Richardson, Charles Potter	*Dover, N. H.*	6 College St.

Name	Residence	Room
Richardson, Edward	*Wellesley Hills, Mass.*	K K K House
Richardson, Elwood Seward	*Oak Park, Ill.*	8 Sanborn
Richardson, Philip	*Nashua, N. H.*	5 Reed
Riley, Francis Bradford	*Jamaica Plain, Mass.*	Davison Block
Roberts, Carl Noyes	*Place, N. H.*	17 Wentworth
Romayne, Harrie Carlyle	*Penn Yan, N. Y.*	The Hanover Inn
Rowell, Frank Fulton	*Sunapee, N. H.*	10 Wentworth
Sanborn, William Augustus, Jr.	*Somerville, Mass.*	Φ Δ Θ House
Sandy, Chester James	*Chicago, Ill.*	19 Richardson
Shattuck, Roger Conant	*Nashua, N. H.*	6 Wheeler
Sheehan, Dennis Edward, Jr.	*Middleboro, Mass.*	9 Wentworth
Sibley, Homer Taft	*North Newport, N. H.*	21 Wheeler
Silha, Emil Albert	*Chicago, Ill.*	10 W. South St.
Smart, Wilfred Hiram	*Canaan, N. H.*	19 Reed
Smead, Ralph Amsden	*Greenfield, Mass.*	6 Richardson
Smith, Chauncey Wayland	*Norridgewock, Me.*	Φ Δ Θ House
Smith, Morris Kellogg	*Hanover, N. H.*	C. & G. House
Southgate, Richard Steele	*Woodstock, Vt.*	C. & G. House
Spencer, Ray Allison	*Ayer, Mass.*	24 Fayerweather
Sprague, Leon Alfred	*Haverhill, Mass.*	7 College
Stearns, Chester Arthur	*Johnson, Vt.*	Dragon House
Stern, Clarence Henry	*Albany, N. Y.*	49 Wheeler
Stevens, Albert Emery	*Lawrence, Mass.*	2 Wentworth
Stokes, Robert Thomas, Jr.	*Brooklyn, N. Y.*	12 Fayerweather
Storrs, Harry Carl	*Hanover, N. H.*	42 S. Main St.
Tabor, Parker Wilson	*Pittsburg, N. H.*	21 Wheeler
Taylor, Arthur Wendell	*Warren, Mass.*	9 College St.
Thomas, David	*Neath, Penn.*	8 Thornton
Tileston, Roland Ray	*Randolph, Mass.*	2 The Tavern
Trickey, Ernest Hodgdon	*Rochester, N. H.*	9 Thornton
Vail, Solon Joshua	*Randolph, Vt.*	31 Wheeler
Walker, William Dodge	*Goffs Falls, N. H.*	9 Crosby
Wallace, John Carman	*Montclair, N. J.*	19 Crosby
Wallace, James William	*St. Louis, Mo.*	Φ Δ Θ House
Washburn, Benjamin Martin	*Bethel, Vt.*	18 Wheeler
Wellman, Harry Richmond	*Lowell, Vt.*	C. & G. House
Whitaker, Harry Stewart	*Newport, Vt.*	20 Fayerweather
White, Alfred Gault	*St. Louis, Mo.*	Φ Δ Θ House
White, Warner Goodrich	*Buffalo, N. Y.*	34 Fayerweather
Willson, Charles Wesley Talpey	*Farmington, N. H.*	17 Wentworth
Winslow, Arthur Eugene	*Oakland, Me.*	21 Reed
Woodbury, Chester Tenney	*Salem, N. H.*	1 Fayerweather
Woodworth, Charles Parker	*Concord, N. H.*	13 Crosby
Worthen, Thacher Washburn	*Hanover, N. H.*	11 Webster Ave.
Wyman, William Ulysses	*Somerville, Mass.*	5 Crosby

JUNIORS

Name	Residence	Room
Adler, Lawrence	*New York, N. Y.*	10 College St.
Alden, Alanson Gilbert	*Orange, N. J.*	22 Thornton
Amidon, Luey Earle Cleveland	*Millers Falls, Mass.*	30 Hallgarten
Anderson, Arthur Theodore	*East Boston, Mass.*	9 Wheeler
Anderson, Frank William	*East Boston, Mass.*	3 Hubbard
Badger, Erastus Beethoven, 2d	*Winchester, Mass.*	25 Richardson
Baine, George Fredson	*Clinton, Mass.*	1 Richardson
Barnes, Arthur Bradley	*Lowell, Mass.*	17, 18 Fayerweather
Bartlett, Edward Payson	*Belchertown, Mass.*	1 Thornton
Batchelder, Paul Mason	*Portsmouth, N. H.*	13 Elm
Beckett, Bertram	*Cambridge, Mass.*	K K K House
Bennett, Charles Greenleaf	*Tilton, N. H.*	17 Thornton
Blake, Francis Gilman	*Canandaigua, N. Y.*	X Φ House
Blakeley, Joseph Wing	*Montpelier, Vt.*	49 Fayerweather
Blanchard, Gordon	*Brookline, Mass.*	55 Wheeler
Blanpied, David Robert	*Newtonville, Mass.*	9 Sanborn
Blood, Arthur Kimball	*Lynn, Mass.*	15 Crosby
Boyce, Henry Francis	*Danversport, Mass.*	34 Fayerweather
Bright, George Adams	*Washington, D. C.*	14 Sargent Rd.
Brown, James Barrett	*Everett, Mass.*	K K K House
Carns, Raymond Ledden	*East Berlin, Conn.*	15 Sanborn
Carter, Royal Parkinson	*Woburn, Mass.*	24 Reed
Chandler, Albert Richard	*Norwich, Conn.*	16 Thornton
Chedel, Robert Whitcomb	*Randolph, Vt.*	17 Thornton
Clark, Harold Charles	*Keene, N. H.*	19 Wentworth
Clark, John Alexander	*Evanston, Ill.*	14 Sanborn
Cogswell, Harold Bickford	*Concord, N. H.*	31 Reed
Cole, Leon Sargent	*Warner, N. H.*	4 Clement Rd.
Comstock, Donald Laird	*Chelsea, Vt.*	3 Wentworth
Cook, Frank Gordon	*Concord, N. H.*	K K K House
Corcoran, John William	*Brookline, Mass.*	Shurtleff House
Cowee, Howard Wyman	*Worcester, Mass.*	Shurtleff House
Crowley, Ralph Elmer	*Taunton, Mass.*	48 Fayerweather
Currier, Leon Levy	*Sunapee, N. H.*	9 Sanborn
Currier, Ralph Prescott	*Ponemah, N. H.*	13 Fayerweather
Currier, Warren	*Greeley, Colo.*	11 Wheeler
Cushing, John Thayer	*Lakeport, N. H.*	6 Fayerweather
Cushman, Oliver Wesley	*Manchester, N. H.*	7 Pleasant St.
Danforth, Richard Stevens	*Gardiner, Me.*	1 Wentworth
Darling, Edwin Woodbridge	*Boston, Mass.*	48 Fayerweather
DeAngelis, Charles LeMoyne	*Utica, N. Y.*	27 Wheeler
Detlefsen, John	*Cambridgeport, Mass.*	29 Fayerweather
Dodge, Amos	*Concord, N. H.*	13 Crosby

Name	Residence	Room
Donahue, Joseph Joyce	*Medford, Mass.*	Β Θ Π House
Dunham, Jasper Sprague	*Brooklyn, N. Y.*	12 Fayerweather
Dunn, Theodore Ira	*Rockport, Mass.*	26 College
Eberly, Arthur Allen	*Hiawatha, Kan.*	4 Sanborn
Edwards, Frederic	*Revere, Mass.*	2 Wentworth
Elwell, George William	*Exeter, N. H.*	Davison Block
Emery, Henry Stowell	*Salem Depot, N. H.*	10 Elm
English, Frederic Kent	*Wareham, Mass.*	12 Lebanon St.
English, Harold Lewis	*Lisbon, N. H.*	17 Sanborn
English, William Frye, Jr.	*East Windsor, Conn.*	19 Wentworth
Evans, Webster Brewer	*Hyde Park, Mass.*	Φ Δ Θ House
Everett, John Steven	*So. Framingham, Mass.*	33 Fayerweather
Farrington, Edward Chipman	*Chelsea, Mass.*	6 Crosby
Fine, George Bruce	*Arlington, N. J.*	1 Sargent Rd.
Fiske, Eben Winslow	*Waltham, Mass.*	Shurtleff House
Foley, Ernest Lee	*Bloomington, Ind.*	2 Crosby
Forsaith, William Francis	*Auburn, N. H.*	25 Lebanon St.
Frame, Roscoe George	*Topsfield, Mass.*	1 Thornton
Frothingham, Donald Yerdon	*Kensico, N. Y.*	7 Richardson
Glaze, John Baldwin	*Denver, Colo.*	8 Hubbard
Gleason, Percy Elhanan	*Everett, Mass.*	17 S. Main St.
Gray, John Harvey	*Chicopee, Mass.*	18 Wentworth
Greeley, Eliphalet Austin	*Haverhill, Mass.*	31 Fayerweather
Greenwood, Ivan Anderson	*Cleveland, O.*	Shurtleff House
Greenwood, Lester Clyde	*Farmington, Me.*	18 Wentworth
Griffin, Michael Bernard	*Newmarket, N. H.*	9 Wentworth
Griffin, Thomas Jerome	*South Hadley Falls, Mass.*	7 W. South St.
Griffin, Winthrop Austin	*Greenwood, Mass.*	23 Reed
Griswold, Laurence Wakeman	*Batavia, N. Y.*	18 Richardson
Gustafson, Gustaf James	*East Boston, Mass.*	7 Elm
Hale, Warren Freeman	*Salem, Mass.*	27 Fayerweather
Hall, Charles Merrill	*North Providence, R. I.*	10 W. South St.
Harding, Jesse	*Haverhill, Mass.*	17 Thornton
Harriman, Walter Hartwell	*Nashua, N. H.*	26 Richardson
Hazen, Albert Rockwell	*White River Junction, Vt.*	20 Crosby
Hazen, Ralph William	*Bethlehem, N. H.*	3 Wentworth
Hill, Roger Frank	*Tilton, N. H.*	17 Thornton
Hinman, John Holmes	*North Stratford, N. H.*	48 Wheeler
Hoar, Crosby Arthur	*West Acton, Mass.*	16 Thornton
Hobart, Harold Sawtelle	*Nashua, N. H.*	23 Reed
Hodgson, Fred Hudson	*Methuen, Mass.*	Observatory
Howe, Luther Maxwell	*Wakefield, Mass.*	11 Hubbard
Huebener, Curtis Edward	*Dorchester, Mass.*	57 Wheeler
Irish, Stacey Burton	*Northfield, Vt.*	2 Sargent Rd.
Isaacson, Follett Israel	*Dorchester, Mass.*	17 Reed

Name	Residence	Room
Jordan, Thomas Eugene	*Lebanon, N. H.*	17 S. Main St.
Joyce, Harold Winslow	*Dedham, Mass.*	22 Richardson
Keith, Roy Harmon	*Watertown, Mass.*	3 College
Kennedy, Harry Bean	*Spokane, Wash.*	X Φ House
Kilroe, Edward Augustine	*Waterbury, Conn.*	K Σ House
Knight, Joseph King, Jr.	*Hyde Park, Mass.*	17, 18 Fayerweather
Knight, William D	*Rockford, Ill.*	Shurtleff House
Knox, Benjamin Clement	*Manchester, N. H.*	1 Bartlett
Langill, Morton Howard	*Hanover, N. H.*	21 Allen St.
Lavin, Roy Everett	*Woodland, Me.*	2 Fayerweather
Lee, William Leran	*Perry, O.*	16 Sanborn
Lee, William Wallace, Jr.	*Malden, Mass.*	K Σ House
Leete, George Paul	*Concord, N. H.*	23 Fayerweather
Lewis, Arthur Leon	*Lakeport, N. H.*	Shurtleff House
Lewis, Mason Avery	*Denver, Colo.*	Shurtleff House
Lewis, Morton Lee	*Claremont, N. H.*	5 Fayerweather
Libby, Joseph Ralph	*Putnam, Conn.*	26 Fayerweather
Lincoln, Ernest Avery	*Fall River, Mass.*	8 Lebanon St.
Locke, William Maynard	*Winchendon, Mass.*	40 S. Main St.
Lowe, Porter Webber	*Fitchburg, Mass.*	17 Richardson
Lunt, Joseph Richard	*Groveland, Mass.*	19 Hallgarten
McAllaster, Howard Edward	*Winnetka, Ill.*	20 College
McAllister, Thomas Savory	*Auburndale, Mass.*	1 Fayerweather
McCarthy, John Daly	*Fitchburg, Mass.*	24 Hallgarten
McCarthy, Peter Florence	*Dorchester, Mass.*	57 Wheeler
McDevitt, Harry Sullivan	*Allston, Mass.*	C. & G. House
McElwain, John Hazen	*Holyoke, Mass.*	24 College
Marsden, Raymond Robb	*Utica, N. Y.*	14 Richardson
Marsh, Raymond Eugene	*Westport, N. H.*	22 Thornton
Marshall, Lee Woodbury	*Manchester, Mass.*	17, 18 Fayerweather
Merrill, Guy Rindge	*Cambridge, Mass.*	8 Sanborn
Merrill, Richard Brackett	*Littleton, N. H.*	K K K House
Miller, William Alexander	*Easthampton, Mass.*	33 Reed
Mitchell, Herbert Hamilton	*La Grange, Ill.*	9 Crosby
Morey, Harold Arthur	*Wilder, Vt.*	Davison Block
Morrissey, Thomas Paul	*Springfield, Mass.*	Shurtleff House
Mower, Earl Clifford	*Windsor, Vt.*	17 Crosby
Munkelt, Frederick Herman	*Brooklyn, N. Y.*	K Σ House
Nichols, Andrew Leach	*Sudbury, Vt.*	2 Hallgarten
Nichols, Chester Warren	*Reading, Mass.*	21 Wentworth
Norton, John Aloysius	*Boston, Mass.*	16 Reed
Ordway, Fred Dickey	*Milford, N. H.*	3 School St.
O'Shea, Arthur Dennis	*Laconia, N. H.*	Davison Block
Parker, Raymond Brewer	*Reading, Mass.*	Β Θ Π House
Parkinson, Dana	*Waltham, Mass.*	22 Thornton

Name	Residence	Room
Perkins, Allen Moore	*Wellesley Hills, Mass.*	11 Crosby
Prentice, Eugene Miles	*Du Quoin, Ill.*	11 Wheeler
Proctor, James Sullivan	*Fitchburg, Mass.*	28 Richardson
Rich, Walter Clarence	*North Concord, Vt.*	8 Crosby
Richardson, Joseph Leland	*Roxbury, Mass.*	2 Hubbard
Riley, Cornelius Augustine	*Omaha, Neb.*	Shurtleff House
Robinson, Frank Asbury	*Brookline, Mass.*	X Φ House
Rogers, Harry Knox	*Concord, N. H.*	3 Thornton
Ross, Carl Wilbur	*Calais, Me.*	10 Sanborn
Rotch, Arthur Boylston	*Milford, N. H.*	Davison Block
Royce, Clayton Elbert	*West Woodstock, Vt.*	25 Reed
Rugg, Harold Ordway	*Fitchburg, Mass.*	19 S. Main St.
Rugg, Robert Billings	*Roxbury, Mass.*	29 Richardson
Ruggles, Sydney Lee	*Plainfield, N. H.*	3 Reed
Rutherford, Alva Bruce	*Waddington, N. Y.*	Δ T Δ House
Rutherford, Seymour Suffee	*Waddington, N. Y.*	Δ T Δ House
Ruxton, Douglas Donald	*Ludlow, Mass.*	7 Richardson
Safford, Charles Noah	*Windsor, Vt.*	14 Wheeler
Sanborn, Benjamin Eugene, Jr.	*Leavitts Hill, N. H.*	5 W. South St.
Sanborn, Walter Butler	*Somerville, Mass.*	K K K House
Schilling, Frederick Edward	*New Britain, Conn.*	14 Richardson
Schwarz, Hugo Ignatz	*Mt. Vernon, N. Y.*	17 S. Main St.
Severance, Charles Conant	*Rochester, N. H.*	5 Thornton
Shaw, Arthur Briggs	*Joliet, Ill.*	Shurtleff House
Sherburne, Ralph Holmes	*Penacook, N. H.*	23 Fayerweather
Sherburne, Raymond Warren	*Tyngsboro, Mass.*	1 N. Park St.
Sides, Arthur Clement	*So. Groveland, Mass.*	18 W. Wheelock St.
Smallman, Edwin Watson	*Malden, Mass.*	26 Hallgarten
Soule, Arthur Turner	*Brooklyn, N. Y.*	8 Hubbard
Speare, Alden True	*Lynn, Mass.*	52 Fayerweather
Squier, George Edwin	*Holyoke, Mass.*	8 Hubbard
Stearns, Malcolm	*Springfield, Mass.*	36 Reed
Stilphen, Cornelius Mortimer	*Boston, Mass.*	27 Fayerweather
Stone, Henry Lewis	*Haverhill, Mass.*	31 Fayerweather
Symmes, Lawrence Metcalf	*Winchester, Mass.*	55 Wheeler
Talcott, Clarence Clayes	*Joliet, Ill.*	Shurtleff House
Tappan, Stanford Davis	*Hyde Park, Mass.*	Shurtleff House
Tarbell, John Appleton	*Winchester, Mass.*	X Φ House
Tatterson, John Morris	*Biddeford, Me.*	28, 30 Richardson
Tenney, Allan Gray	*Holliston, Mass.*	B Θ Π House
Thompson, John William	*Cleveland, O.*	20 College
Thompson, Philip Laforrest	*St. Johnsbury, Vt.*	8 Crosby
Thompson, Robert Fears	*Gloucester, Mass.*	6 Crosby
Thorpe, Burton Durrell	*Lisbon, N. H.*	17 Sanborn
Titcomb, Frank Elmer	*Farmington, Me.*	20 Wentworth

Name	Residence	Room
Treadway, Lauris Goldsmith	*Atlantic, Mass.*	K K K House
Vaitses, Paul Stephen	*Melrose, Mass.*	12 Lebanon St.
Vietor, August Frederick	*Lawrence, Mass.*	3 School St.
Walker, Charles Howard	*Portsmouth, N. H.*	23 N. Main St.
Wehrle, Walter Goble	*Somerville, Mass.*	K Σ House
Wheeldon, Albert James	*Worcester, Mass.*	8 Lebanon St.
Whipple, Howard Franklin	*Brockton, Mass.*	8 Richardson
White, Edgar Fowler	*Danvers, Mass.*	1 Richardson
Whitney, Alvin Goodnow	*Groton, Mass.*	Observatory
Williams, Howard Knowlton	*Cleveland, O.*	21 Reed
Winkley, Willard Choate	*Dover, N. H.*	23 Reed
Winslow, Elisha Freeman	*Norwood, Mass.*	17 College
Witham, William Eastburn	*Philadelphia, Penn.*	2 The Tavern
Wood, Charles Albert	*Milbank, S. D.*	16 New Hubbard
Woodman, William Hidden	*Haverhill, Mass.*	48 Wheeler
Woodward, Leon Arthur	*East Swanzey, N. H.*	24 Reed
Wooldridge, Reginald	*Melrose, Mass.*	11 Hubbard
Worcester, William Warner	*Hollis, N. H.*	Χ Τ Κ Rooms
Wright, Russell Burleigh	*La Grange, Ill.*	9 Crosby
Wyman, Arthur Merriam	*Lynn, Mass.*	15 Crosby

SOPHOMORES

Abbott, Royal Kilburn	*Dorchester, Mass.*	24 Richardson
Adams, George Ross	*West Newton, Mass.*	24 Wheeler
Alden, Earle Stanley	*Pasadena, Cal.*	30 Wheeler
Alvord, Russell Owen	*Winsted, Conn.*	12 Richardson
Andrews, Harold Leslie	*Monson, Mass.*	9 Reed
Ashworth, William	*Lebanon, N. H.*	18 Thornton
Atwood, William Thompson	*Ware, Mass.*	39 Fayerweather
Austin, Frank Stearns	*Lynn, Mass.*	K Σ House
Avery, Philip Stearns	*Nashua, N. H.*	27 Reed
Ayer, Benjamin	*Belmont, Mass.*	41 S. Main St.
Bachelder, Everett Edward	*Pittsfield, N. H.*	15 S. Main St.
Bales, Harold Campbell	*Wilton, N. H.*	1 Hubbard
Bankart, Henry Reginald	*Bridgton, Me.*	29 Reed
Barstow, Benjamin	*Kingston, Mass.*	10 Thornton
Bartlett, Frank Mervin	*West Lebanon, N. H.*	Davison Block
Bartlett, Hollis Manning	*Haverhill, Mass.*	3 College St.
Bates, Albert Wood	*Middleboro, Mass.*	27 Hallgarten
Battey, Earle Jacob	*Concord, N. H.*	3 Richardson
Bedell, Arthur Sidney	*Brooklyn, N. Y.*	25 W. Wheelock St.
Beebe, John Cleaveland	*Hampden, Mass.*	26 Hallgarten
Bell, James Samuel, Jr.	*Cambridge, Mass.*	59 Wheeler

Name	Residence	Room
Bell, Samuel Kent	*Exeter, N. H.*	K K K House
Bell, Thomas	*Exeter, N. H.*	15 S. Main St.
Bills, Clinton Edwin	*Monson, Mass.*	10 Wheeler
Bird, Frank Henry	*Wellesley Hills, Mass.*	8 Reed
Blake, Clifford Austin	*Westboro, Mass.*	26 Reed
Blake, Charles Clifton	*Sandy Hill, N. Y.*	6 Wheeler
Blodgett, Guy Cleveland	*Milford, N. H.*	46 Fayerweather
Bonter, Max Knight	*Crete, Neb.*	3 Crosby
Bradley, Delmont Rockwood	*Gloucester, Mass.*	26 New Hubbard
Brett, Chester Snow	*Boston, Mass.*	16 Wheeler
Brock, Fred Sumner	*Rochester, N. H.*	16 Hallgarten
Brown, Ogden	*St. Louis, Mo.*	2 Proctor
Brown, Walter Edward	*Brimfield, Mass.*	9 W. South St.
Bruce, Robert Merritt	*Manchester, N. H.*	7 Pleasant St.
Buchanan, Harry Earle	*New York, N. Y.*	13 Wheeler
Bull, Wilbur Irving	*Billerica, Mass.*	8 Wentworth
Burbank, Harold Hitchins	*Calais, Me.*	11 Sanborn
Burns, George Thomas	*Ayer, Mass.*	19 W. Maple St.
Burns, Robert Arthur	*Somerville, Mass.*	Noyes House
Burpee, Benjamin Prescott	*Manchester, N. H.*	26 Wheeler
Burroughs, Harry Eugene	*Somerville, Mass.*	5 Hubbard
Butman, Carl Hawes	*Washington, D. C.*	9 Hubbard
Buxton, Arthur Leet	*Springfield, Mass.*	3 Richardson
Carroll, Frederic Aloysius	*Worcester, Mass.*	12 Reed
Cartland, Charles Wallingford	*Dover, N. H.*	21 Allen St.
Cassidy, William Xavier	*Lawrence, Mass.*	59 Wheeler
Catharin, Norman Rudolph	*Chelsea, Mass.*	Β Θ Π House
Caverly, Harley Tuttle	*Rutland, Vt.*	K K K House
Chappelear, Edgar	*Zanesville, O.*	Δ Τ Δ House
Chase, Phillip Minot	*Boston, Mass.*	15 S. Main St.
Chesley, Roland Edward	*West Lebanon, Me.*	29 Reed
Childs, John Roland	*Evanston, Ill.*	15 Reed
Childs, John Warren	*Henniker, N. H.*	41 S. Main St.
Clark, Harold Symmes	*Auburndale, Mass.*	8 Wentworth
Clement, Ralph Byron	*Chelsea, Mass.*	9 Reed
Clough, John	*Ittabena, Miss.*	2 Richardson
Cole, Philip Stanley	*North Carver, Mass.*	27 Hallgarten
Colley, Reginald Hunter	*Rockport, Mass.*	8 Reed
Cooper, Fred Allen	*Chicago, Ill.*	8 Hubbard
Copeland, Fred Osmore	*Randolph, Vt.*	A Sanborn
Cory, Frank Lawrence	*Lebanon, N. H.*	15 S. Main St.
Cowles, Russell	*Des Moines, Ia.*	11 Richardson
Croll, Edward Henry	*Buffalo, N. Y.*	1 Reed
Crosby, Sumner	*Centreville, Mass.*	26 Sanborn
Cummings, Clarence Edwin	*Beachmont, Mass.*	Β Θ Π House

Name	Residence	Room
Cummings, Ralza Milon	*Concord, N. H.*	Noyes House
Cushman, Ralph Earl	*Burlington, Vt.*	Φ Δ Θ House
Davis, Marshall Freeman	*North Conway, N. H.*	K Σ House
Dean, Lindley Richard	*Charlotte, Vt.*	2 Sargent Rd.
Dillingham, Herman Louis	*Milford, Mass.*	16 Wheeler
Dodge, Carleton Noyes	*Henniker, N. H.*	53 Wheeler
Dodge, Roy Howard	*Dalton, Mass.*	6 W. South St.
Doe, Arthur Franklin	*Somerville, Mass.*	21 Sanborn
Dole, Charles Elbert	*Lebanon, N. H.*	26 Wheeler
Dreyfus, Walter Julius Leopold	*New York, N. Y.*	Noyes House
Driscoll, James Glynn	*Whitinsville, Mass.*	21 Reed
Dudley, Benjamin Harmon	*Malone, N. Y.*	45 Fayerweather
Dunbar, Clarence Eugene	*Manchester, N. H.*	41 S. Main St.
Dwenger, George Henry	*Brooklyn, N. Y.*	13 Reed
Eaton, Robert Byers	*Roxbury, Mass.*	14 Reed
Erhard, Emile Henri	*Brookline, Mass.*	38 Wheeler
Fardy, Thomas Albert	*Randolph, Mass.*	12 Thornton
Farley, Leon Baker	*Nashua, N. H.*	11 Crosby
Fearing, William Ingraham	*Newton, Mass.*	Noyes House
Fisk, Clarence Ames	*Brighton, Mass.*	5 Wheeler
Flanders, Philip Raymond	*Rochester, N. H.*	9 Thornton
Fleisher, Horace Teller	*Philadelphia, Penn.*	10 Fayerweather
Floyd, Harry Rabardy	*Manchester, Mass.*	16 Crosby
Follansbee, Merrill Middleton	*Chicago, Ill.*	11 Richardson
Foote, Warren Cleveland	*Newton Centre, Mass.*	6 Hubbard
Ford, Edward Chandler	*Marshfield, Mass.*	23 N. Main St.
Foreman, Harold Edwin	*Chicago, Ill.*	19 College
Foss, Harold Richard	*Portland, Me.*	10 Richardson
Foster, Walter Harold	*Dover, N. H.*	6 College St.
French, Bertrand Carr	*Sandwich, Mass.*	Φ Δ Θ House
Gardner, Laurence Vaughn	*Cleveland, O.*	Noyes House
Gates, Stanley	*Claremont, Cal.*	38 Wheeler
Gilbert, Franklin Hamilton	*Plymouth, Mass.*	40 Wheeler
Golde, Walter Hermann Julius	*Brooklyn, N. Y.*	12 Hallgarten
Golden, Henry	*Taunton, Mass.*	Β Θ Π House
Goodhart, Joseph Alfred	*Randolph, Vt.*	31 Wheeler
Goodrich, Ernest Herman	*Portland, Me.*	49 Fayerweather
Gould, Robert Rutledge	*Portland, Conn.*	20 Wentworth
Graff, Joseph Rae	*Peoria, Ill.*	Φ Δ Θ House
Graves, Arthur Leslie	*Wells River, Vt.*	7 Hallgarten
Graves, Harvey Wilbur	*Rochester, N. Y.*	5 Sargent St.
Greenebaum, James Friend	*Danville, Ill.*	21 College
Greenwood, Oliver Parker	*Billerica, Mass.*	5 Wentworth
Griffin, Trescott	*Epsom, N. H.*	21 New Hubbard
Hager, Milton Blanchard	*West Acton, Mass.*	3 Hallgarten

Name	Residence	Room
Hall, Harold Steward	*Hudson, Mass.*	17 College
Hammond, Joseph Albert	*Hebron, N. H.*	43 W. Wheelock St.
Hammond, Karl Raymond	*Nashua, N. H.*	42 Fayerweather
Hancock, Walter Aiken	*Franklin, N. H.*	17 College
Hansbury, John Edward	*Milford, Mass.*	4 Bartlett
Hanson, Fred Sumner, Jr.	*Somerville, Mass.*	15 S. Main St.
Hatch, Joseph Richmond	*Chelsea, Mass.*	Β Θ Π House
Hatton, Bertram	*Lebanon, N. H.*	19 Wheeler
Hearne, Alonzo Graham	*Kittery, Me.*	32 Hallgarten
Helmboldt, Werner	*Boston, Mass.*	22 Fayerweather
Herrick, Arthur Lowell	*Gloucester, Mass.*	Φ Κ Ψ Rooms
Hersey, Alan Frederic	*Hingham, Mass.*	54 Wheeler
Hibbard, Hazen Kimball	*Woodsville, N. H.*	Ford Block
Hilliard, Curtis Morrison	*Braintree, Mass.*	2 Reed
Hilton, Howard Hoyt	*Chicago, Ill.*	Shurtleff House
Hinckley, George Harris	*Portland, Me.*	40 S. Main St
Hitchcock, James	*Cambridge, Mass.*	20 Richardson
Holmes, Robert Jameson	*Newton, Mass.*	42 Wheeler
Holzer, William Francis	*Arlington, N. J.*	18 Thornton
Hooker, Sanford Berton	*Bradford, Vt.*	24 Richardson
Horner, Simpson Wesley, Jr.	*Detroit, Mich.*	21 School St.
Hosford, Harold	*Lebanon, N. H.*	2 Richardson
Hough, Philip	*Dover, N. H.*	45 Wheeler
Howard, Eliot Remsen	*Hyde Park, Mass.*	24 Sanborn
Howland, Nathaniel Jacob	*New Bedford, Mass.*	Φ Δ Θ House
Hull, Morton	*Chicago, Ill.*	21 Crosby
Huselton, James Shaw	*Butler, Penn.*	Noyes House
Jackson, William Mitchell	*Littleton, N. H.*	3 Hubbard
Johnson, Frederick Channing	*Newtonville, Mass.*	2 Proctor
Kelley, Edward Patrick	*North Andover, Mass.*	7 W. South St.
Kennedy, George Francis	*Roxbury, Mass.*	11 Hallgarten
Killam, Carl	*East Boxford, Mass.*	8 Hallgarten
Kimball, Kenneth Everett	*Ashland, N. H.*	Ford Block
King, Samuel Frederick	*Newton Highlands, Mass*	10 Crosby
Kirkpatrick, Robert Harrison	*Milltown, Me.*	Benton Place
Kivel, Maurice	*Dover, N. H.*	21 Richardson
Klopp, Valentine Isaac	*Mt. Aetna, Penn.*	Κ Κ Κ House
Kullberg, Francis Townsend	*East Boston, Mass.*	10 Reed
Kusic, Alvis	*Iroquois, N. Y.*	10 Hallgarten
Lane, Robert Raymond	*Westbrook, Me.*	C. & G House
Lane, Walter John	*Gilmanton, N. H.*	12 Elm
Lang, Benjamin	*South Lee, N. H.*	36 Reed
Laton, Fred Dighton	*Nashua, N. H.*	Χ Φ House
Lawson, John Donald	*Roslindale, Mass.*	21 Wentworth
Leavitt, George Albert	*West Medford, Mass.*	13 Wheeler

Name	Residence	Room
Leighton, Stanley Winthrop	*Boston, Mass.*	22 Fayerweather
Locke, Isaac Beauchamp	*Belmont, Mass.*	18 Richardson
Locke, Richard Baldwin	*Belmont, Mass.*	28 Richardson
Loughlin, William Albert	*Worcester, Mass.*	12 Reed
Luck, Charles Arthur	*Weiser, Idaho*	Δ T Δ House
Lynde, William Mayo	*Williamstown, Vt.*	3 College
Lyon, Graham Spear	*Legonier, Ind.*	12 Richardson
McCurdy, Allan Morrill	*Andover, Mass.*	45 Wheeler
McLane, Arthur Findley	*Denver, Colo.*	K K K House
McLoud, Anson	*Roxbury, Mass.*	29 Richardson
McNaughton, Percival John	*Baldwinville, Mass.*	40 S. Main St.
Mann, Scott Whitcher	*Woodsville, N. H.*	30 Fayerweather
Marion, Gardner Sparhawk	*Brighton, Mass.*	8 Richardson
Marrinan, John Joseph	*Woburn, Mass.*	8 Hallgarten
Marshall, Leon Craig	*Hanover, N. H.*	38 S. Main St.
Marston, Ralph Herbert	*Roxbury, Mass.*	Davison Block
Martin, Edwin Daniel	*Oak Park, Ill.*	2 New Hubbard
Mason, Jasper Karl	*Calais, Me.*	12 New Hubbard
Meleney, Henry Edmund	*Hanover, N. H.*	10 W. Wheelock St.
Melville, Chester Warren	*Brookline, Mass.*	4 Crosby
Moffatt, Elbert Marston	*St. Joseph, Mich.*	12 New Hubbard
Monroe, Elmer Eddy	*Orange, Mass.*	7 b Thornton
Moody, Howard Gage	*Worcester, Mass.*	4 Richardson
Morawski, Frederick Haubrich	*Roxbury, Mass.*	Davison Block
Morse, Leon Jeremiah	*Wilder, Vt.*	9 College St.
Mower, Robinson Haile	*Rockford, Ill.*	32 Reed
Murchie, Harold Hale	*Calais, Me.*	11 Sanborn
Naylor, Emmett Hay	*Evanston, Ill.*	13 W. Wheelock St.
Newton, Allen Edward	*Winthrop, Mass.*	Β Θ Π House
Newton, Jonah Jay	*Brockton, Mass.*	27 Sanborn
Nichols, Leonard Gates	*Reading, Mass.*	16 Reed
Nolan, Leo Francis	*Newport, R. I.*	Δ T Δ House
Norris, Edward Plumer	*Portsmouth, N. H.*	23 N. Main St.
Noyes, Alvin Clark	*Bethlehem, N. H.*	13 Wentworth
Noyes, Ralph Wilber	*Bethlehem, N. H.*	13 Wentworth
Nute, Stanley Pearl	*Farmington, N. H.*	7 a Thornton
O'Brien, Francis James	*North Andover, Mass.*	16 Wentworth
Oliphant, George Woodbury	*Methuen, Mass.*	2 Thornton
O'Mara, Arthur James	*Brooklyn, N. Y.*	21 Hallgarten
Osborne, Harold Allen	*Lynn, Mass.*	53 Fayerweather
Otis, Dean Putnam	*Hancock, N. H.*	1 New Hubbard
Palmer, Allison Cleaveland	*Braintree, Mass.*	2 Reed
Parker, Thomas Oscar	*Pepperell, Mass.*	35 N. Main St.
Parkinson, Taintor	*Waltham, Mass.*	30 Reed
Patch, William Townsley	*Shelburne Falls, Mass.*	6 Sanborn

Name	Residence	Room
Patterson, Russell Brown	*Washington, D. C.*	5 Sanborn
Patterson, William Hubbard	*Chicago, Ill.*	26 Richardson
Pearl, Roswell Thornton	*Boston, Mass.*	30 Reed
Pearson, Charles Wadleigh	*Nashua, N. H.*	22 Sanborn
Pease, Ralph Southworth	*Fall River, Mass.*	30 Fayerweather
Peck, Warren Lawrence	*St. Johnsbury, Vt.*	8 Crosby
Peebles, Richard Rogers	*Ashland, Ky.*	Δ T Δ House
Perry, Chester Norman	*Dorchester, Mass.*	Davison Block
Peterson, Howard Bigelow	*Waltham, Mass.*	21 School St.
Pettengill, Russell Arthur	*Minneapolis, Minn.*	Noyes House
Pitcher, Karl Herbert	*Haverhill, Mass.*	53 Fayerweather
Place, Albert Whitford	*Francestown, N. H.*	12 Lebanon St.
Plummer, Fred Byron	*Hanover, N. H.*	1 S. Park St.
Pool, Sterling Howard	*Lynn, Mass.*	5 Wheeler
Pratt, Harold Houghton	*Dorchester, Mass.*	Β Θ Π House
Prescott, Harold Milton	*Concord, N. H.*	Noyes House
Readey, Maurice	*Manchester, N. H.*	27 Reed
Reagan, Frank Joseph	*Framingham, Mass.*	Davison Block
Reed, Dwight Thornton	*Portsmouth, N. H.*	31 Hallgarten
Reed, Fred Leon	*Malden, Mass.*	Κ Κ Κ House
Richardson, Leroy Mowry	*Winchester, Mass.*	25 Reed
Rogers, Earle Jackson	*Cabot, Vt.*	53 Fayerweather
Rogers, Walter Clarence	*Wollaston, Mass.*	21 Thornton
Root, Kenneth Edward	*Chicago, Ill.*	21 Richardson
Rose, Philip Marshman	*Reeds Ferry, N. H.*	17 S. Main St.
Ross, Wallace Mason	*Lebanon, N. H.*	7 Reed
Ryan, Charles Diller	*Springfield, Ill.*	62 Wheeler
Saville, Clark	*Quincy, Mass.*	36 Fayerweather
Saville, John Kimball	*Waban, Mass.*	24 Wheeler
Sawin, Ralph Waldo Emerson	*Holyoke, Mass.*	Β Θ Π House
Schildmiller, George Henry	*Waterbury, Conn.*	13 Reed
Schofield, Albert	*Newtonville, Mass.*	2 Wheeler
Schwartz, Harvie Ellsworth	*Yonkers, N. Y.*	28 Fayerweather
Scully, Bernard Matthew	*Accord, Mass.*	10 Elm
Sheldon, Curtis Lanphere	*New Britain, Conn.*	40 Fayerweather
Shipley, George Elliott	*Oak Park, Ill.*	21 Crosby
Sidley, Walter Augustine	*Lawrence, Mass.*	16 Wentworth
Simpson, Claude Randolph	*Milford, Mass.*	4 Sanborn
Skillin, Clarence Percy	*Oak Park, Ill.*	8 Hubbard
Smith, Mark Anson	*Lebanon, N. H.*	42 Fayerweather
Smith, Porter MacDougal	*Chicago, Ill.*	21 Crosby
Smith, Theo Rice	*Brooklyn, N. Y.*	21 Thornton
Smith, Winthrop Lamson	*Brooklyn, N. Y.*	9 Hubbard
Solomon, Frank	*Chicago, Ill.*	19 College
Sporborg, Arthur Joseph	*Albany, N. Y.*	28 Fayerweather

Name	Residence	Room
Stanley, Arthur Burgess	*Hyde Park, Mass.*	K Σ House
Staples, Charles Wells	*Franklin, N. H.*	K Σ House
Stark, Eugene Miller	*Cedar Rapids, Ia.*	9 W. South St.
Stickney, Park Washburn	*Fargo, N. D.*	51 Wheeler
Stone, Earle Hildreth	*Dunbarton, N. H.*	9 College St.
Stone, Robert Mason	*Winchester, Mass.*	12, 13 Hubbard
Storer, Perley Nelson	*Portsmouth, N. H.*	23 N. Main St.
Stuart, Arthur Thompson	*Lyndonville, Vt.*	6 Crosby
Stucklen, Henry William	*Dorchester, Mass.*	24 Thornton
Swenson, John Arthur	*Concord, N. H.*	22 Crosby
Theller, Ralph Lauris	*Cambridge, Mass.*	14 Hallgarten
Thomas, Walter Evan	*Neath, Penn.*	8 Thornton
Thompson, Sidney Hammond	*St. Johnsbury, Vt.*	8 Crosby
Thorn, Craig	*Albany, N. Y.*	2 Proctor
Tucker, Lynde	*Albany, N. Y.*	7 College
Turner, James Andrew	*Chicago, Ill.*	Δ T Δ House
Tuttle, James Norwood	*Harwichport, Mass.*	9 S. Park St.
Tyler, George Alfred	*Houston, Tex.*	16 New Hubbard
Varney, John Cushing	*North Chelmsford, Mass.*	13 Thornton
Vincens, Richard George	*Springfield, Mass.*	17 S. Main St.
Waldron, Dana Elliott	*Portland, Me.*	Noyes House
Walker, Herbert Moore	*Goffs Falls, N. H.*	10 Crosby
Walker, Herman Luther	*Los Angeles, Cal.*	42 S. Main St.
Ward, Harry Abbott	*Lynn, Mass.*	44 Fayerweather
Wass, Lester Sherwood	*Gloucester, Mass.*	14 Reed
Watson, Daniel Edward	*Roxbury, Mass.*	Β Θ Π House
Weinz, Arthur Gordon	*Roxbury, Mass.*	50 Wheeler
Wellsted, Thomas Cedric	*Cleveland, O.*	Noyes House
West, Vernon Frost	*Portland, Me.*	Noyes House
Whelpley, Walter Merton	*Winthrop, Mass.*	29 Hallgarten
Whitcomb, Henry Bassett	*Newton, Mass.*	Noyes House
White, Arthur Cordingley	*Roxbury, Mass.*	3 Wheeler
Whitman, Charles Herbert	*South Weymouth, Mass.*	3 Sanborn
Whitmore, Harold Cushing	*Lynn, Mass.*	4 Proctor
Whitney, Ernest Claflin	*Salem, Mass.*	5 Sanborn
Wight, Ralph Maynard	*Ogdensburg, N. Y.*	10 Richardson
Williams, Frank Birtwistle	*Fall River, Mass.*	22 Crosby
Worthen, Joseph Washburn	*Hanover, N. H.*	11 Webster Ave.
Wright, Louis Forrest	*Campello, Mass.*	20 Richardson
York, George Monroe	*Somerville, Mass.*	5 Hubbard

FRESHMEN

Name	Residence	Room
Abercrombie, Ralph Davenport	*Lawrence, Mass.*	9 Hallgarten
Albert, Eugene Paul	*Elmhurst, Ill.*	50 Fayerweather
Allan, Leon Troup	*Dorchester, Mass.*	8 New Hubbard
Allen, Arthur Pratt	*South Berlin, Mass.*	8 College St.
Allen, Clarence Eugene	*Fitchburg, Mass.*	1 Reed
Allen, George Edgar	*Bradford, Mass.*	4 Reed
Armstrong, Ferdinand Douglas	*Winchester, Mass.*	9 College St.
Ayers, William	*Barre, Vt.*	13 Sanborn
Badgley, Jerome Brigham	*Denver, Colo.*	27 Allen St.
Bailey, Theodore Mead	*Sioux Falls, S. D.*	26 Reed
Baldwin, James	*Somerville, Mass.*	20 Sanborn
Baldwin, Ralph Guy	*West Lebanon, N. H.*	8 Lebanon St.
Baldwin, Theodore Whig	*Oak Park, Ill.*	2 New Hubbard
Baldwin, William Lothrop	*North Stratford, N. H.*	Ford Block
Bankart, Laurence Hardy	*Bridgton, Me.*	7 Reed
Bardwell, Charles Albion	*Dorchester, Mass.*	19 Allen St.
Barker, Almon Charles	*New Vineyard, Me.*	22 New Hubbard
Barnet, Floyd	*Chicago, Ill.*	1 Crosby
Barrett, Arnold Leavenworth	*Florence, Mass.*	35 Reed
Bartlett, Joseph	*Auburndale, Mass.*	7 Wentworth
Bates, John Wesley	*Somersworth, N. H.*	4 Wheeler
Baxter, Chauncey Buel	*Hyde Park, Mass.*	37 Fayerweather
Beal, Henry Starr	*Rockford, Ill.*	18 Reed
Belcher, Thomas Lewis	*Winthrop, Mass.*	23 Hallgarten
Benjamin, Harold Culver	*West Medford, Mass.*	36 Wheeler
Bissell, Malcolm Havens	*New York, N. Y.*	18 Reed
Blake, Maurice Cary	*Canandaigua, N. Y.*	43 Fayerweather
Boerker, Richard Hans Donai	*Brooklyn, N. Y.*	12 Hallgarten
Brady, Francis Anthony	*South Boston, Mass.*	9 W. South St.
Bredemus, John	*South Bend, Ind.*	48 S. Main St.
Bresler, Adolph Day	*Cleveland, O.*	6 New Hubbard
Brooks, Chase	*Holyoke, Mass.*	13 W. Wheelock St.
Brooks, Frederic Carleton	*Denver, Colo.*	14 Sargent Rd.
Brooks, John Cowles	*Claremont, N. H.*	23 Thornton
Brooks, Philip Preston	*Charlestown, N. H.*	5 S. Park St.
Brown, William Glover, Jr.	*Gloucester, Mass.*	17 New Hubbard
Brusse, Joseph Cleveland	*Denver, Colo.*	52 S. Main St.
Bryant, Donald Runnells	*Chicago, Ill.*	14 Crosby
Bull, Leslie Augustus	*Billerica, Mass.*	8 Wentworth
Bullock, William Henry	*Everett, Mass.*	5 Elm
Burry, Perry Buell	*Cleveland, O.*	16 Sanborn
Burton, Fletcher Payne	*Brookline, Mass.*	6 College
Bushway, Howard James	*Cambridge, Mass.*	8 The Tavern

Name	Residence	Room
Carpenter, Guy Richard	*Binghamton, N. Y.*	35 Reed
Carter, Warren Shaw	*Somersworth, N. H.*	13 Sanborn
Cassidy, John Anthony	*Brooklyn, N. Y.*	21 Hallgarten
Chadbourne, Horace Barker	*Chelmsford, Mass.*	13 Thornton
Chamberlin, George Edward	*Manchester, N. H.*	17 S. Main St.
Charlton, Hoitt Newton	*Marlboro, Mass.*	25 Sanborn
Chase, Laurence Carlisle	*Everett, Mass.*	52 S. Main St.
Childs, David Allan	*Salem, N. H.*	7 The Tavern
Clement, Asher Averal	*Francestown, N. H.*	2 Elm
Coar, Herbert Greenleaf	*Brooklyn, N. Y.*	10 Thornton
Coffin, Henry Clay	*Everett, Mass.*	21 School St.
Cole, Munroe	*Wilmett, Ill.*	14 Crosby
Coleman, Albert James	*Cambridge, Mass.*	14 Hallgarten
Colgan, James Francis, Jr.	*New Haven, Conn.*	11 Wentworth
Collins, Henry Francis	*Methuen, Mass.*	25 Hallgarten
Comey, Chester Francis	*Mansfield, Mass.*	43 Wheeler
Comey, Henry Cheever	*Melrose, Mass.*	22 Wentworth
Comstock, Marshall Ernest	*West Medford, Mass.*	35 Fayerweather
Cooper, Brown	*Fort Wayne, Ind.*	20 Occom Ridge
Copp, Reuben Rixford	*Alton, N. H.*	5 Richardson
Cowan, Pierpont McClaskey	*Allston, Mass.*	15 S. Main St.
Craft, Daniel Dustin	*Chicago, Ill.*	50 Fayerweather
Crafts, Otis Thompson	*Manchester, N. H.*	7 Fayerweather
Crawford, Charles Luther	*Rockford, Ill.*	20 Thornton
Crosby, Alpheus Dixi	*New York, N. Y.*	18 Hallgarten
Curtis, Don Harold	*Brooklyn, N. Y.*	28, 30 Richardson
Curts, Elmer Edward	*St. Louis, Mo.*	5 Wentworth
Cushman, Ernest Alden	*Hanover, Mass.*	The Tavern
Cushman, Hiram Norton	*Brighton, Mass.*	18 New Hubbard
Cutler, Raymond Fiske	*Warren, Mass.*	22 College
Davidson, Joseph James	*North Stratford, N. H.*	Ford Block
Davies, George Clement	*Vergennes, Vt.*	63 Wheeler
Davis, Stillman Clough, Jr.	*Cambridge, Mass.*	19 Wheeler
Deering, William Hall	*Saco, Me.*	13 New Hubbard
Devine, Charles Watson	*Pueblo, Colo.*	16 Richardson
Dingle, John Harvey	*Omar, Del.*	17 Hallgarten
Doggett, Allen Barrows, Jr.	*Brooklyn, N. Y.*	15 E. Wheelock St.
Donovan, Francis Leonard	*Troy, N. Y.*	7 Wentworth
Dore, Harry Burns	*Portsmouth, N. H.*	10 Maple St.
Dorr, Allen Everett	*Richmond, Mass.*	9 Hallgarten
Douglas, John Tyler	*Methuen, Mass.*	25 Hallgarten
Douglas, Walter Cooley	*New York, N. Y.*	12 Wentworth
Dowdall, John Hancock	*Danvers, Mass.*	2 College
Downey, Joseph Elliott	*Newtonville, Mass.*	1 New Hubbard
Driver, Harry Herman	*Allegheny, Penn.*	24 Thornton

Name	Residence	Room
Drummond, James, Jr.	*Amesbury, Mass.*	15 Wentworth
Dudley, William Wallace	*Wayland, Mass.*	25 New Hubbard
Dussault, William Arthur	*Franklin, N. H.*	25 Lebanon St.
Eastman, Maurice Warren	*St. Cloud, Minn.*	22 Reed
Eastman, Whitney Haskins	*Fort Ann, N. Y.*	1 Lebanon St.
Eaton, Walter Irving	*Brimfield, Mass.*	3 College St.
Eberly, Horace David	*Hiawatha, Kan.*	4 Sanborn
Elliott, Richard Maurice	*Lowell, Mass.*	23 Richardson
Emerson, Nathaniel Albert	*Etna, N. H.*	38 S. Main St.
Everett, James Richard	*So. Framingham, Mass.*	33 Fayerweather
Ewing, Moses	*Haverhill, Mass.*	18 W. Wheelock St.
Fall, Howard	*Malden, Mass.*	5 The Tavern
Farwell, John Thurston	*Berlin, N. H.*	20 New Hubbard
Farwell, Roger Bent	*Natick, Mass.*	56, 57 Wheeler
Fay, Charles Jackson	*Roxbury, Mass.*	2 Hubbard
Ferguson, John Alva	*Dorchester, Mass.*	58 Wheeler
Field, John Henry, Jr.	*Nashua, N. H.*	7 W. South St.
Finn, John Haley	*Lynn, Mass.*	9 Fayerweather
Fleming, Frank Wiggins	*Manchester, Mass.*	16 Crosby
Floyd, Richard Clark	*Brookline, Mass.*	13 The Tavern
Fogg, Howard Lockhart	*Hyde Park, Mass.*	6 The Tavern
Forristall, Philip Merrill	*Malden, Mass.*	13 Richardson
Foss, Noah Sylvester	*Plymouth, N. H.*	41 S. Main St.
Foster, Thomas Albert	*Portland, Me.*	25 New Hubbard
Fowler, Allan Prime	*Yonkers, N. Y.*	1 Sanborn
Frame, James	*Newport, R. I.*	1 New Hubbard
Gibson, Charles Edward	*East Ryegate, Vt.*	3 Lebanon St.
Gleason, Gay	*Somerville, Mass.*	22 Wheeler
Gonyer, George Frederick	*Littleton, N. H.*	1 Elm
Goodere, Harold Ingham	*Fitchburg, Mass.*	23 Wentworth
Gooding, Henry Evans	*Portland, Me.*	4 Elm
Gordon, Arthur Alexander	*Barre, Vt.*	5 Richardson
Gorton, Robert Raymond	*West Newton, Mass.*	25 Fayerweather
Gow, Arthur Coleman	*Somerville, Mass.*	8 Wheeler
Grant, William Bradford	*Goffstown, N. H.*	11 Elm
Graves, George Alexander, 2d	*Springfield, Mass.*	25 Richardson
Greenwood, Donald Whittier	*Farmington, Me.*	15 Wentworth
Groat, Carl Diedrich	*Pittsfield, Mass.*	15 Thornton
Hannon, Martin Edward	*Dorchester, Mass.*	18 New Hubbard
Harlow, William Bleakie	*Hyde Park, Mass.*	37 Fayerweather
Harris, Fred Henry	*Brattleboro, Vt.*	Ford Block
Harrison, Henry Roger	*Denver, Colo.*	21 Allen St.
Haserot, Henry McKinney	*Cleveland, O.*	8 Fayerweather
Hatch, Arnold Stuart	*Albany, N. Y.*	11 Fayerweather
Hawes, Herbert Richardson	*Worcester, Mass.*	4 Richardson

Name	Residence	Room
Hazelton, Sidney Channing	*West Medford, Mass.*	35 Fayerweather
Hedges, Horace Gabriel	*Cedar Rapids, Ia.*	9 W. South St
Heneage, Thomas Hodgson	*Oak Park, Ill.*	7 Sanborn
Hiestand, Edgar Willard	*Chicago, Ill.*	16 College
Higbee, Edward Wyman, Jr.	*Newport, R. I.*	14 New Hubbard
Higgens, Charles Kaiser	*Somerville, Mass.*	15 S. Main St.
Hill, Albert Frederick	*Attleboro, Mass.*	4 School St.
Hinman, Harold Purman	*North Stratford, N. H.*	11 New Hubbard
Hitchcock, Charles Frederick	*Gilbertville, Mass.*	39 Wheeler
Hobbs, Henry Homer	*Thorndike, Mass.*	37 Wheeler
Hobbs, John William French	*North Hampton, N. H.*	12 Wheeler
Holmes, Max Lucius	*Newton, Mass.*	32 Wheeler
Holmes, Talley Robert	*Washington, D. C.*	20 Hallgarten
Howard, Stanley Rausch	*Hyde Park, Mass.*	24 Sanborn
Hunt, Benjamin Henry	*East Weymouth, Mass.*	3 Sanborn
Hunt, Wesley Marshall	*Hanover, N. H.*	13 E. Wheelock St.
Hunter, Harry Holland	*Evanston, Ill.*	62 Wheeler
Hunter, Robert James	*Rockford, Ill*	32 Reed
Huntington, Thurlow Titus	*Shortsville, N. Y.*	27 Allen St
Hursh, Richard Spahr	*Cambridge, Mass.*	7 Fayerweather
Hutchins, Henry Clinton	*Boston, Mass.*	46 Wheeler
Hyde, Harold Valmore	*Lynn, Mass.*	20 Wheeler
Hyde, Royal Wilkins	*Milford, N. H.*	4 New Hubbard
Ingalls, James Warren	*Lynn, Mass.*	4 Proctor
Irving, Wendell	*Chelsea, Mass.*	39 Wheeler
Jackson, Harold Pineo	*Montpelier, Vt*	23 Sanborn
Jenks, George Harold	*Claremont, N. H.*	23 Thornton
Jenness, Thornton Weeks	*Rye Beach, N. H.*	12 Wheeler
Jewett, Irving Frederick	*Brookline, Mass.*	18 College
Johnson, David Laundon	*Cleveland, O.*	19 New Hubbard
Johnson, Frederic Plumley	*Waltham, Mass.*	11 New Hubbard
Johnson, Oliver Ames	*South Boston, Mass*	3 Wheeler
Johnson, Stafford Fisher	*Colorado Springs, Colo.*	30 Wheeler
Johnson, Victor Haquet	*South Bend, Wash.*	33 Hallgarten
Jones, Hazen Worcester	*Malden, Mass.*	13 Richardson
Jones, Ralph Bartlett	*Anaheim, Cal.*	16 Hallgarten
Josselyn, Stormont	*North Andover, Mass*	4 The Tavern
Judd, Harold Lewis	*Cleveland, O.*	8 Fayerweather
Keith, Edson Warren	*West Wareham, Mass.*	13 Webster Ave.
Kelley, Henry Preston	*Roxbury, Mass.*	10 New Hubbard
Kendall, Leon Buell	*Ballard Vale, Mass.*	24 Wentworth
Kenway, Edward	*Newton, Mass*	41 Wheeler
Kerley, James Joseph	*Ballston Spa, N. Y.*	22 Wentworth
Kerns, Edward James, Jr.	*Worcester, Mass.*	3 Reed
Kidder, George Herrick Faber	*Orange, N. J.*	9 Richardson

Name	Residence	Room
Kinney, Joseph Ritchie	*Winthrop, Mass.*	23 Hallgarten
Knapp, Kenneth Johnston	*Cleveland, O.*	19 New Hubbard
Knapp, William Bruce	*Stoneham, Mass.*	20 Wheeler
Kohler, Frederic Dudley	*Brooklyn, N. Y.*	22 Sanborn
Lake, Jesse Newcomb	*Lowell, Mass.*	17 The Tavern
Langdell, Louis Charles	*Milford, N. H.*	13 Fayerweather
Larson, Henry Maxwell, Jr.	*Brooklyn, N. Y.*	13 Reed
Lee, Arthur	*Danvers, Mass.*	2 College
Leonard, Thomas James	*Lancaster, N. H.*	11 S. Park St.
Levermore, Charles Lewis	*Brooklyn, N. Y.*	1 Sanborn
Libby, Charles Otis, Jr.	*East Corinth, Me.*	12 The Tavern
Lloyd, Sumner Hurst	*Chicago, Ill.*	1 Crosby
Lord, Arthur Hardy	*Hanover, N. H.*	37 College St.
Lord, Richard Jeremiah	*Melrose, Mass.*	15 Wheeler
Loring, Edward Otis	*Newton, Mass.*	38 Fayerweather
Loveland, Edward Hildreth	*Norwich, Vt.*	Norwich, Vt.
Lowell, James Russell	*Portland, Me.*	4 Elm
Lyon, Clifford Stanley	*Holyoke, Mass.*	28 Wheeler
McClintock, George Leonard	*Boothbay Harbor, Me.*	26 Fayerweather
McCusker, Leo Maher	*Danville, Ill.*	21 College
McDuffee, Walter Clyde	*Rochester, N. H.*	♣ Δ ⊖ House
McPherson, James Eben	*South Framingham, Mass.*	21 Sanborn
McPherson, John Vanderveer	*Oak Park, Ill.*	47 Wheeler
Macomber, Robert Leeds	*Boston, Mass.*	46 Wheeler
March, Harold Johnson	*Shelburne Falls, Mass.*	10 Thornton
Marsh, Harold Potter	*Sheldon, Vt.*	8 Lebanon St.
Mathewson, Samuel Anderson	*New York, N. Y.*	29 Wheeler
Meagher, Ward Charles	*New Rochelle, N. Y.*	60 Wheeler
Meehan, Albert Grover	*Concord, N. H.*	9 Pleasant St.
Meleney, Frank Lamont	*Hanover, N. H.*	10 W. Wheelock St.
Meredith, Russell Dudley	*Troy, N. Y.*	14 Fayerweather
Merrill, Charles Greenleaf	*Ottumwa, Ia.*	16 Richardson
Miller, Burton Carr	*Albany, N. Y.*	10 Reed
Mills, Homer Ossian	*Jamaica Plain, Mass.*	35 Wheeler
Mitchell, Harry Gilbert	*South Boston, Mass.*	9 W. South St.
Moriarty, Alfred Irving	*Belmont, Mass.*	14 Sargent Rd.
Morrissey, Francis Michael	*East Walpole, Mass.*	21 School St.
Moses, Lester Ezra	*Lancaster, N. H.*	9 S. Park St.
Mower, Emory Douglas	*Burlington, Vt.*	3 New Hubbard
Mudgett, Harry Horton	*Andover, N. H.*	7 W. South St.
Murphy, Thomas Francis	*Boston, Mass.*	11 Hallgarten
Nay, Winthrop Shaw	*Dorchester, Mass.*	15 S. Main St.
Nelson, Earl Carlton	*Hanover, N. H.*	9 New Hubbard
Nickerson, Atkins	*Melrose, Mass.*	32 Fayerweather
Nicol, Killian Van Renesselaer	*South Haven, Mich.*	7 Sanborn

Name	Residence	Room
Nissen, Louis Peter	*Newport, R. I.*	3 New Hubbard
Noble, David Merwin	*Dorchester, Mass.*	10 W. South St.
Norris, Roy Curtis	*Cleveland, O.*	23 New Hubbard
Norton, James Jackson	*Chicago, Ill.*	K K K House
Norton, Walter Heselton	*Winthrop, Mass.*	23 Hallgarten
Nourse, James Percival	*Rutland, Mass.*	8 Elm
Paine, Ralph Howe	*White River Junction, Vt.*	10 College St.
Palmer, Donald Ferguson	*Paducah, Ky.*	10 W. South St.
Palmer, Earl Russell	*Paducah, Ky.*	10 W. South St.
Park, Thaddeus Carlton	*Grafton, Vt.*	17 Hallgarten
Parker, Robert Emerson	*Reading, Mass.*	21 Fayerweather
Paul, Edward Augustus	*Wakefield, N. H.*	2 Sanborn
Peattie, Clarence Gemmill	*Saratoga Springs, N. Y.*	6 Elm
Perley, Rollin Harmon	*Danvers, Mass.*	Β Θ Π House
Perry, Guy Maxwell	*Littleton, N. H.*	1 Elm
Perry, Winthrop Scott	*Maynard, Mass.*	5 Hallgarten
Pevear, Chase Keith	*Boston, Mass.*	4 Fayerweather
Phelps, Kenneth Allen	*Fargo, N. D.*	11 The Tavern
Phelps, Walter Alfred	*Wakefield, Mass.*	4 Hallgarten
Phillips, Kenneth Daniel	*Omaha, Neb.*	21 Fayerweather
Pierce, Earle Howard	*Newtonville, Mass.*	18 College
Pierce, John Henry	*Springville, N. Y.*	10 Hallgarten
Pierce, Roger Grenway	*Dorchester, Mass.*	10 Hubbard
Pishon, Sturgis	*West Roxbury, Mass.*	15 Fayerweather
Porter, James Marsh	*Malden, Mass.*	15 Richardson
Powers, Leland	*Newton, Mass.*	29 Wheeler
Pratt, Everard Stowell	*Brookline, Mass.*	13 The Tavern
Prentiss, Nathan Newberry	*Cambridge, Mass.*	20 Thornton
Prescott, Edgar B	*Laconia, N. H.*	4 Wheeler
Price, Walter Milton	*Indianapolis, Ind.*	22 Hallgarten
Raabe, Edwin Otis	*Fitchburg, Mass.*	23 Wentworth
Rainey, Frederick Albert	*Round Lake, N. Y.*	19 Allen St.
Reed, Henry Ransford	*Arlington, Mass.*	61 Wheeler
Reynolds, Rollo George	*Cambridge, Vt.*	The Tavern
Rice, Clifford Edward	*Pittsfield, Mass.*	15 Thornton
Rich, Robert Carey	*Portsmouth, N. H.*	1 Hallgarten
Richmond, Joseph Whitney	*Windsor, Vt.*	17 Crosby
Ricker, Albert Amasa	*St. Johnsbury, Vt.*	24 Wentworth
Robinson, Everett William	*Mansfield, Mass.*	43 Wheeler
Robinson, Frank Owen	*Belmont, Mass.*	6 Sanborn
Robinson, Harold Wesley	*Warren, Vt.*	11 Elm
Rogers, Fletcher	*Brooklyn, N. Y.*	5 S. Park St.
Rollins, Arthur Sederquist	*West Alton, N. H.*	10 W. South St.
Ruhe, Willard Lewis	*West Newton, Mass.*	23 Wheeler
Salmon, Allen Pope	*Newton Highlands, Mass.*	25 Fayerweather

Name	Residence	Room
Sandberg, Harry Otis	*Chelsea, Mass.*	11 The Tavern
Scarlett, Andrew Jackson, Jr.	*West Boylston, Mass.*	22 Wheeler
Scott, Chester Francis	*Worcester, Mass.*	8 New Hubbard
Scott, Irving Osgood	*Hinckley, Me.*	44 College St.
Shambow, John Christopher	*Woonsocket, R. I.*	17 Reed
Shattuck, Edmund James	*Norwood, Mass.*	44 Wheeler
Shaw, Warren Waldo	*Lowell, Mass.*	17 The Tavern
Sheets, Raymond W	*Rockford, Ill.*	3 Fayerweather
Shenstone, Osborne Harris	*Toronto, Canada*	32 Fayerweather
Sherman, Leo Prentiss	*West Rupert, Vt.*	9 Pleasant St.
Sherman, Nathaniel Alden	*Allston, Mass.*	22 Reed
Sherwin, Ralph Arthur	*Orange, Mass.*	7 b Thornton
Shoppelry, Arthur Howard	*Everett, Mass.*	K K K House
Sickman, John Edwin	*Holyoke, Mass.*	6 College
Sinclair, George Cheever	*Medford, Mass.*	36 Wheeler
Slafter, John Lyman	*East Thetford, Vt.*	11 The Tavern
Small, Ernest Gregor	*Dorchester, Mass.*	29 Hallgarten
Smith, Dallas Forbes	*Chatham, Mass.*	9 S. Park St.
Smith, Daniel Brown	*St. Louis, Mo.*	20 Hallgarten
Smith, Howard Votey	*Pittsford, Vt.*	3 Lebanon St
Smith, Sheldon Bainbridge	*Troy, N. Y.*	14 Fayerweather
Smith, Thayer Adams	*Hanover, N. H.*	9 School St.
Smyth, Joseph Mathews	*Whitinsville, Mass.*	6 W. South St.
Spaulding, Howard Kirk	*Peabody, Mass.*	Φ Δ Θ House
Spokesfield, Guy Carleton	*Worcester, Mass.*	25 Hallgarten
Sprague, Harold Wentworth	*Brockton, Mass.*	6 Reed
Stanton, Malcolm	*Newton, Mass.*	41 Wheeler
Stephens, Ernest	*Gloucester, Mass.*	The Tavern
Stern, Lawrence Fish	*Chicago, Ill.*	6 New Hubbard
Stevens, Harry Rupert	*Franklin, N. H.*	25 Lebanon St.
Steward, Edgar Mills	*Chicago, Ill.*	24 New Hubbard
Steward, Wayne Dudley	*Chicago, Ill.*	24 New Hubbard
Stone, Irving Davis	*Troy, N. Y.*	6 Elm
Stone, Ried Herrick	*Dunbarton, N. H.*	9 College St.
Stone, Robert Hazen	*White River Junction, Vt.*	8 College St.
Straus, Melvin Leo	*Chicago, Ill.*	13 New Hubbard
Stuart, Edwin Grant	*Chariton, Ia.*	52 S. Main St.
Studley, Ernest Allen	*Rockland, Mass.*	2 Wentworth St.
Taylor, Marvin Cooper	*Worcester, Mass.*	22 College
Taylor, Otto Frank	*Lawrence, Mass.*	5 New Hubbard
Taylor, Ralph Warren	*Lawrence, Mass.*	40 S. Main St.
Taylor, Wilbur Leyland, Jr.	*Lawrence, Mass.*	5 New Hubbard
Teall, Maynard Canfield	*Sodus, N. Y.*	17 New Hubbard
Thomas, Charles Albert Cornelius	*Buffalo, N. Y.*	22 Hallgarten

Name	Residence	Room
Thomas, David, Jr.	*Roxbury, Mass.*	X Φ House
Thomes, John Bidwell	*Portland, Me.*	42 Fayerweather
Thompson, Raymond Whiton	*Concord, N. H.*	14 Maple St.
Thurber, George Freeman	*Nashua, N. H.*	43 Fayerweather
Tobin, Clarke Walworth	*South Boston, Mass.*	16 Reed
Unangst, Ernest Walker	*Hingham, Mass.*	10 The Tavern
Underwood, George Adam	*Gardner, Mass.*	32 S. Main St.
VanderPyl, John Cornelius	*Roxbury, Mass.*	10 New Hubbard
Van Zant, Ralph Dale	*Denver, Colo.*	7 Wheeler
Wagner, Ernest Adolph	*Manchester, N. H.*	9 College St.
Wallace, Louis Burr	*Rochester, N. H.*	37 Wheeler
Warnock, John Chester	*Meriden, Conn.*	16 The Tavern
Warren, Julius Ernest	*Barre, Mass.*	11 Thornton
Washburn, Harold Edward	*Putney, Vt.*	7 The Tavern
Welch, James Henry	*Brighton, Mass.*	9 Elm
Wells, Harry Artemas	*Apthorp, N. H.*	1 Elm
West, Harris Moody	*Chester, N. H.*	25 Lebanon St.
West, Howard Ernest	*Haverhill, Mass.*	4 Reed
Wheat, Harold Abercrombie	*Springfield, Mass.*	3 Crosby
Whipple, Sidney Beaumont	*Lowell, Mass.*	23 Richardson
Whitcomb, Paul	*Boston, Mass.*	16 Fayerweather
Wiggin, Leslie Sherwood	*Somerville, Mass.*	7 Elm
Wilkinson, Winsor Dornin	*Berkeley, Cal.*	9 Elm
Williams, Ben Ames	*Jackson, O.*	28 Wheeler
Williams, Lewis Mesler	*Glencoe, Ill.*	4 New Hubbard
Williams, Russell Tillinghast	*Roxbury, Mass.*	12 Wentworth
Willis, Sumner Chapin	*Dorchester, Mass.*	10 Hubbard
Wilson, Jesse Scott	*Concord, N. H.*	14 Maple St.
Wilson, Raymond Walden	*Springfield, Mass.*	52 Wheeler
Wilson, Walter Gibson	*Leicester, Mass.*	Davison Block
Winchester, Harold Eugene	*Bismarck, N. D.*	14 Lebanon St.
Wing, Richard Lyman	*New Bedford, Mass.*	11 Reed
Winship, Harold Sumner	*Passaic, N. J.*	11 Wentworth
Wolff, Herbert Alfred	*New York, N. Y.*	41 Fayerweather
Wood, Abiel Wayland	*Worcester, Mass.*	9 New Hubbard
Woodcock, Robert Lindsay	*Oak Park, Ill.*	47 Wheeler
Woods, Herbert Silas	*New Britain, Conn.*	23 Wentworth
Woodsum, Samuel Dow	*Holliston, Mass.*	8 College St.
Woodworth, Rolin Lewis	*Montpelier, Vt.*	23 Sanborn
Woolner, William Harold	*Everett, Mass.*	21 School St.
Worcester, Francis	*Allegheny, Penn.*	28 College
Yergin, Arthur Wallace	*Clyde, N. Y.*	15 The Tavern
Young, James Herbert	*Brooklyn, N. Y.*	52 Wheeler

SUMMARY

Graduate Students	29
Seniors	190
Juniors	198
Sophomores	286
Freshmen	355
Total	1058

DISTRIBUTION BY STATES AND COUNTRIES

Massachusetts	477	Nebraska	5
New Hampshire	214	Kentucky	3
New York	72	Michigan	3
Vermont	67	North Dakota	3
Illinois	66	Kansas	2
Maine	39	Minnesota	2
Ohio	17	South Dakota	2
Connecticut	13	Washington	2
Colorado	12	Canada	1
Rhode Island	8	Delaware	1
Pennsylvania	8	Idaho	1
Iowa	7	Mexico	1
District of Columbia	6	Mississippi	1
Missouri	6	South Carolina	1
New Jersey	6	Texas	1
California	5	Wisconsin	1
Indiana	5		

THE LISTS OF STUDENTS IN THE ASSOCIATED SCHOOLS ARE GIVEN AS FOLLOWS:

	Page
Tuck School	211
Thayer School	255
Medical School	271
Summer School	307

REQUIREMENTS FOR ADMISSION

ALL CANDIDATES FOR ADMISSION to College must offer satisfactory testimonials of good moral character; and those who have been members of other colleges must present certificates of regular dismission.

For admission without condition a candidate must secure credit for twenty-one *points;* a *point* represents a course of study of at least three periods per week for a year; the credit by points is indicated by figures in parentheses after the courses.

RATING OF THE COURSES

English (4)
History I (2)
History II (2)
Mathematics I (4)
Latin (6)
Greek (5)
Modern Language, 2 yrs. (3)
Modern Language, 1 yr. (1)
Chemistry (1)
Physics (1)
Biology (1)
History, 1 yr. (1)
History, 2 additional yrs. (3)
Mathematics II (3)
Latin, 2 yrs. (3)

All candidates for the A.B. degree must present English (4), History I or History II (2), Mathematics I (4), and Latin (6), aggregating 16 points; for the remaining 5 points a candidate may present Greek (5), or Modern Language (3) and a Science (1) *and* either an additional year of a modern language (1) or an additional year of history (1). (Candidates presenting Greek must present History I.)

All candidates for the B.S. degree must present English (4), History I or History II (2), Mathematics I (4), and a Modern Language (3), aggregating 13 points; for the remaining 8 points a candidate must present *two* of the following four subjects: Mathematics II (3), Latin, 2 yrs. (3), Second Modern Language (3), two addi-

tional years of History (3), making 6 points, *and* two of the Sciences, Chemistry (1), Physics (1), Biology (1).

Tabulation of Requirements

A.B. Degree			B.S. Degree		
English	(4)		English	(4)	
History	(2)		History	(2)	
Mathematics I	(4)		Mathematics I	(4)	
Latin	(6)		Modern Language	(3)	
		(16)			(13)
and either			*and*		
Greek	(5)		*two* of: Mathematics II	(3)	
			Latin, 2 yrs.	(3)	
or			Second Mod. Lang.	(3)	
Modern Language	(3)		History, two add. yrs.	(3)	
One Science	(1)				(6)
and either			*and*		
Modern Language, 1 yr.	(1)		*two* of: Chemistry	(1)	
or			Physics	(1)	
History, 1 yr.	(1)		Biology	(1)	
		(5)			(2)
		(21)			(21)

Requirements in Brief

English. — The New England College Entrance Requirements in reading and study, — four periods per week for four years.

History I. — Ancient History, — three periods per week for two years (or five periods per week for one year).

History II. — English History and American History, — three periods per week for two years (or five periods per week for one year).

History III. — European History, Mediæval and Modern, — three periods per week for one year.

Mathematics I. — Algebra through the binomial theorem for positive integral exponents, and Plane Geometry. Review of Algebra in last year.

Mathematics II. — Algebra through Logarithms, Plane and Solid Geometry, and Plane Trigonometry. Review of Algebra.

Latin. — Cæsar, four books; Cicero, six speeches; poetry, 6000 lines; Latin Composition and sight reading.

Latin (*two years*). — Latin Lessons; Cæsar, four books, with elementary prose composition.

Greek. — Anabasis, four books; 1500 lines of Homer; Greek composition and sight reading.

French. — Five periods per week for two years. Translation of at least 800 pages into English. French composition.

German. — Five periods per week for two years. Translation of at least 400 pages into English. German composition.

Chemistry. — Three periods per week for one year, one-half in laboratory.

Physics. — Three periods per week for one year, with at least forty experiments in laboratory.

Biology. — Three periods per week for one year; Zoölogy, one-half year, Botany, one-half year, or either, one year.

SUBJECTS WITH SPECIFICATIONS

ENGLISH

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation.

English Grammar

To secure the first end, training in grammar and the simpler principles of rhetoric, and the writing of frequent compositions are essential. The candidate must be able to spell, capitalize, and punctuate correctly. He must show a practical knowledge of the essentials of English grammar, including ordinary grammatical terminology, inflections, syntax, the use of phrases and clauses; a thorough training in the construction of the sentence; and familiarity with the simpler principles of paragraph division and structure.

Reading

To secure the second end, the reading of a certain number of books is prescribed. The list is intended to give the candidate the opportunity of reading, under intelligent direction, a number of important pieces of literature. The prescribed books are divided into two groups as follows:

A

The candidate should read the books prescribed below with a view to understanding and enjoying them. He will be expected to show a reasonable degree of familiarity with their substance. The form of examination will usually be the writing of paragraphs on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper.

For students entering in 1907 and 1908: Shakespeare's *Macbeth* and *The Merchant of Venice;* the *Sir Roger de Coverly Papers* in the *Spectator;* Scott's *Ivanhoe* and *The Lady of the Lake;* Irving's *Life of Goldsmith;* Coleridge's *The Ancient Mariner;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

For students entering in 1909:[1] Shakespeare's *The Merchant of Venice* and *Julius Cæsar;* Bunyan's *The Pilgrim's Progress* (part I); The *Sir Roger de Coverly Papers* in the *Spectator;* Scott's *The Lady of the Lake* and *Ivanhoe;* Irving's *Sketch Book;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* George Eliot's *Silas Marner.*

B

The candidate should read the books prescribed below with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination is not designed, however, to require minute drill in difficulties of verbal expressions, unimportant allusions, and technical details.

For students entering in 1907 and 1908: Shakespeare's *Julius Cæsar,* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Macaulay's *Essay on Addison* and *Life of Johnson.*

[1] The list for the class entering in 1909 is selected from the list adopted by the Conference on Uniform Entrance Requirements in English, at a meeting held in Newark, N. J., February 22, 1905. Candidates may make other selections from that list, provided they give notice of their intention to present these books on or before the first day of February preceding the examination.

For students entering in 1909: Shakespeare's *Macbeth;* Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso;* Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns.*

HISTORY (including Historical Geography)

Either History I or History II — [candidates for the A.B. degree entering with Greek *must* present History I]:

I. *Ancient History.* — This may cover the general field to 800 A. D.; but must in any case cover at least Greek History to the death of Alexander, with due reference to Greek life, literature, and art, and Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History.* — English History, with due reference to social and political development; American History, with the elements of Civil Government.

In either of the above courses the following requirements must be met: (1) at least three recitations per week for two years (or five recitations per week for one year); (2) such general knowledge of the whole course as may be acquired from the study of accurate text-books, amounting to not less than 600 pages; (3) a fuller knowledge derived from suitable additional reading, in books of a less elementary nature, amounting to at least 600 pages; (4) comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory; (5) geographical knowledge tested by the location of places, movements, and territorial changes on an outline map (by physical features wherever possible, as well as by political features).

III. *European History, Mediæval and Modern.* — At least three recitations per week for one year; an accurate text-book of at least 300 pages; suitable additional reading, in less elementary books, amounting to at least 300 pages; comparisons, and exercise of judgment; geographical knowledge.

A Syllabus of History for Secondary Schools, prepared by a Committee of the New England History Teachers' Association, is recommended as an outline of these courses, giving topics, references, lists of books, and practical suggestions for carrying into effect the forms of work required above. It will be made the basis for the examination questions on both text-book and additional reading.

MATHEMATICS I

Thorough drill in Arithmetic is of vital importance in the study of Mathematics. Facility in the use of integral and fractional numbers should be acquired in the lower grades and retained by the use of numerical examples through the high-school course. Short processes and decimals including the metric system should be used habitually. It is assumed that this fundamental work has been done.

Algebra. — The fundamental operations; factoring, including the finding of highest common factor, lowest common multiple, and roots; fractions, including ratio and proportion; equations of the first and second degrees, both numerical and literal, containing one or more unknown quantities, with applications; radicals, including the square root of polynomials and numbers; exponents, fractional and negative; simple cases of equations with one or more unknown quantities which can be solved by the methods of simple or quadratic equations, including radical equations; the binomial formula with n a positive integer; the formulae for the nth term and the sum of n terms of arithmetic and geometric progressions, with applications. It is expected that throughout the course problems will be solved involving the every-day facts and principles of business, mensuration, and physics, and that graphical methods and illustrations will be employed, particularly in connection with the solution of linear and the simpler forms of quadratic equations.

Plane Geometry. — The ordinary propositions relating to rectilinear figures, the measure of angles, proportion and similar figures, regular polygons, circles, areas, constructions and computations involving applications of the more important propositions, original propositions, and problems in loci.

MATHEMATICS II

Algebra. — Including equations in quadratic form, inequalities, indeterminate equations, proportion, variation, the three progressions, binomial formula for any exponent, convergency of series, undetermined coefficients, and logarithms as treated in a college algebra.

Geometry. — Solid Geometry, the ordinary propositions relating to right lines and planes in space, to the measurements of prisms, cylinders, pyramids, cones, frustums, the sphere and portions of its surface and volume, the solution of problems involving the computation and

comparison of the surfaces and volumes of the cylinder, cone, frustum of cone, sphere, and their principal inscribed and circumscribed solids, and problems in loci.

Trigonometry. — Plane Trigonometry, the theory of the functions and their relations so far as to furnish formulae for the computation of the tables and the solution of right and oblique triangles, the use of logarithmic and trigonometric tables in the solution of problems.

LATIN

A knowledge of the Latin language sufficient to enable the student —

I. To translate at sight passages of Latin prose and verse, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Cicero's speeches against Catiline, ii, iii, and iv, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Latin prose a passage of connected English narrative, based on some portion of the Latin prose works usually read in preparation for college, and limited to the subject-matter of those works.

Careful attention should be given from the beginning to the correct pronunciation of Latin words, both as to quantity and to syllabication. Such pronunciation greatly aids the study of prosody, and is indispensable to the correct reading of Latin poetry.

The examination, except as stated in II above, will be directed to testing the candidate's knowledge of Latin as a whole, rather than his knowledge of special works which he has studied. It is believed that the study of Latin for four years with five lessons a week, covering an amount equal to four books of Cæsar, six speeches of Cicero, and 6000 lines of poetry, preferably 4500 lines of Virgil and 1500 lines of Ovid, together with constant attention to Latin composition and to reading at sight, will be sufficient to give the required proficiency.

GREEK

A knowledge of the Greek language sufficient to enable the student —

I. To translate at sight simple passages of Attic prose and to answer questions on ordinary forms, constructions, and idioms.

II. To pass a thorough examination on Xenophon's Anabasis, Book ii, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Greek prose a passage of connected English narrative, based on a passage from Xenophon's Anabasis, Books i and ii.

IV. To pass a thorough examination on 1500 lines of Homer, including questions on prosody. The regular examination will be on the first three books of the Iliad, but candidates who present other parts of Homer will be given a special paper on the Homer presented, if they apply to the Dean four weeks before the examination.

V. To read aloud in the Greek, with correct pronunciation, with full expression of the sense of the passage, and, in poetry, with correct expression of the rhythm.

It is believed that the study of Greek for three years with five hours a week, covering an amount equal to four books of Xenophon's Anabasis and 1500 lines of Homer, together with constant attention to Greek composition and to reading at sight, will be sufficient to give the required proficiency.

Candidates for admission by certificate must present certificates covering Books i and ii of Xenophon's Anabasis, Books iii and iv of the Anabasis or their equivalent in other Attic prose, and 1500 lines of Homer.

FRENCH

I. A thorough knowledge of accidence and a familiarity with the essentials of French Syntax.

II. The ability to translate at sight ordinary French prose into simple, idiomatic English.

III. The ability to translate into French a connected passage of English based on the text read.

IV. The ability to write ordinary French at dictation.

V. The ability to pronounce French well.

The following course of study is suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

Drill in pronunciation. The rudiments of grammar, including the conjugation of regular verbs and of the more frequent irregular verbs;

the inflection of nouns and adjectives (except the rare forms); the uses of articles, pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax. The translation into French of simple English sentences illustrating the common forms and principles of grammar. The reading of 300 duodecimo pages of simple French prose, with constant practice in turning into French easy variations of the text read. Oral translation and writing of French at slow dictation.

The following texts are suggested as suitable reading for the first year: Mérimée's Colomba; Halévy's L'Abbé Constantin; Jules Verne's Le Tour du monde en quatre-vingts jours; About's Le Roi des montagnes; Lamartine's Jeanne d'Arc; Labiche and Martin's Le Voyage de M. Perrichon; Malot's Sans Famille; Legouvé and Labiche's La Cigale chez les fourmis; Erckmann-Chatrian's L'Histoire d'un paysan and Le Conscrit de 1813; Dumas' La Tulipe noire.

SECOND YEAR — FIVE LESSONS A WEEK

By this time the pupil should be familiar with accidence, and the grammar work should be confined to the study of syntax, with composition exercises illustrating its essential rules.

About 550–600 duodecimo pages of French prose of ordinary difficulty should be read, and the pupil should be drilled in pronunciation, in oral and written translations into French of variations of the text read, in oral translation and writing of French from dictation, and, in addition, he should be required to give French paraphrases and abstracts of portions of the reading matter.

The following texts are suggested as suitable reading for the second year: Loti's Pêcheur d'Islande; Augier's Le Gendre de M. Poirier; Balzac's Le Curé de Tours; Coppée's and Daudet's Stories; Molière's L'Avare and Le Bourgeois gentilhomme; Sandeau's Mademoiselle de la Seiglière; Vigny's La Canne de jonc; Sand's La Mare au diable and La petite Fadette.

GERMAN

I. The ability to pronounce German well.

II. The ability to write ordinary German at dictation.

III. The ability to translate at sight a passage of German prose of ordinary difficulty.

IV. The ability to put into German a connected passage of simple English paraphrased from a given German text, or to turn simple English sentences into German without a model.

V. The ability to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

VI. The ability to translate a passage of classical literature, to answer questions on the subject-matter and the life of the author, and to give character sketches of the main characters. The passage is usually taken from Goethe's Hermann und Dorothea.

The following course of study in German is suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

(1) Pronunciation — Careful attention should be given to the acquisition of a correct pronunciation.

The imitation of the teacher's pronunciation will be the chief factor in the problem; dictation and a knowledge of the rudiments of phonetics will be found helpful. The attention of the teacher is called to Hempl's German Orthography and Phonology, and to Grandgent's German and English Sounds.

(2) Memorizing and frequent repetition of easy colloquial sentences (with variations). The object is to develop feeling for the language.

(3) Rudiments of Grammar (thoroughly learned and studied with exercises).

Declension of articles, nouns (taken from the language of every-day life), adjectives, pronouns. Comparison of adjectives. Auxiliary verbs (of tense and mood). Weak verbs, the more common strong verbs, the more common prepositions and the cases they govern, the more common conjunctions. Sentence order. Elementary syntax.

(4) Reading (narrative prose with some poetry), 150 pages: either (a) a Reader with graduated selections followed by short stories, or (b) Märchen and short stories in graduated texts. Storm's Immensee, Zschokke's Der zerbrochene Krug, Einer muss heiraten, and similar stories and plays are recommended.

(5) Paraphrasing — Constant practice in translating into German easy variations upon sentences in the reading lesson.

SECOND YEAR — FIVE LESSONS A WEEK

(1) Reading (narrative prose chiefly, a comedy and one classic), 250–300 pages.

The following course is suggested: —

(a) Short stories — Heyse: L'Arrabbiata; Riehl: Vierzehn Nothelfer. (b) Selection from historical prose — in Hoffmann's Historische Erzählungen the selection Der deutsch-französische Krieg. (c) A comedy — Benedix: Dr. Wespe or Der Prozesz. (d) One classic — Goethe: Hermann und Dorothea. (e) 50 pages of Freytag's prose.

(2) Paraphrasing — Constant practice in variations upon texts read.

(3) Grammar — (a) Drill upon essentials (continued). (b) Enlargement of grammatical knowledge. Thorough review.

(4) Word-formation — Rudiments.

CHEMISTRY

Acquaintance by laboratory work with elementary processes and with the properties of substances common in Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i-v (exclusive of Class i, Part ii), or equivalent. A certified note-book of laboratory work must be presented at the time of examination. The candidate should have had in addition recitations based upon any good elementary descriptive textbook through the non-metallic and metallic elements.

To meet the above requirement, at least one hundred and ten hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. In both recitation and laboratory exercises, some one of the better text-books or manuals for secondary schools should be followed

and completed. The note-book should bear the certification of the instructor and be presented for inspection at the time of the entrance examinations to College.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

BIOLOGY

I. *Zoölogy* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Work like that outlined in Needham's Elementary Lessons in Zoölogy, Davenport's Introduction to Zoölogy, or Colton's Zoölogy, Descriptive and Practical, will be acceptable.

II. *Botany* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work on the natural history of plants.

The candidate must present a note-book containing the notes and drawings he has made, and bearing the endorsement of his teacher certifying that the book is a true record of the pupil's own observations. The presentation of an herbarium is not required, and no weight will be given this evidence of work done unless it illustrates some definite problem in plant relationship.

No work necessitating the use of a compound microscope is required.

Such texts as Bergen's Elements of Botany or Coulter's Plant Studies will be acceptable.

Students entering on certificate in Chemistry, Physics, or Biology are not required to present their note-books, if their certificate covers the laboratory work.

METHODS OF ADMISSION

Every candidate for admission must furnish from the principal of the school which he has attended, or from the tutor with whom he has studied, a testimonial certifying to good moral character and to sufficient preparation for undertaking college work.

Admission to college may be obtained by one of the following methods: —

I. ADMISSION BY EXAMINATION

Two regular examinations for admission to the Freshman Class are held each year, the June examination in the week preceding Commencement and the September examination just before the opening of the College.

The *June examination* will be held in Room D, Tuck Building, on June 18, 19, 20, 21. Two hours will be allowed for each examination, unless otherwise specified.

Examinations for admission to the Freshman class (but not to higher classes) will also be held on the above specified days in June, in Manchester, N. H. (High School); St. Johnsbury, Vt. (Academy); Boston (Institute of Technology, Rogers Building); Worcester (Academy); New York (Adelphi College, Clifton Place, Brooklyn); and Chicago (Hyde Park High School); provided that the number of candidates for examination, preliminary or final, in any of the places named shall warrant it. All applications for examinations in June at these places should be made to the Dean before June 10th.

The College is also prepared to hold an examination for admission to the Freshman class (but not to higher classes) on the above-named days in June in any city or at any school where the number of candidates for examination, preliminary or final, and the distance from other places of examination may warrant it, provided that applications for this purpose be made to the Dean before June 1st.

The *September examination* will be held in Hanover *only*, on September 12, 13, 14, 16, 17, in Room D, Tuck Building.

Any one intending to take the examinations must register for such examinations on a form which may be obtained from the Dean. Candidates intending to take the examinations in Hanover must present themselves with their credentials at the Dean's office for registration and admission to the examinations one-half hour before the first examination to be taken.

Candidates intending to take the examinations elsewhere than at Hanover should send their names to the Dean of the College before June 1st. A fee of five dollars (payable at the opening of the examination) is charged for admission to examinations outside of Hanover; this fee will be credited towards the first semester's tuition for those who enter Dartmouth College.

ORDER OF EXAMINATIONS IN JUNE, 1907

Preliminary Greek, Biology	8.00–10.00 A. M.,	June 18
History II	10.30 A. M.–12.30 P. M.,	" 18
Elementary French	1.30–3.30 P. M.,	" 18
Advanced Greek, Chemistry	4.00–6.00 P. M.,	" 18
Algebra (Elem. and Adv.)	8.00–10.00 A. M.,	" 19
Elementary German	10.30 A. M.–12.30 P. M.,	" 19
Physics	1.30–3.30 P. M.,	" 19
Latin, Preliminary and Two Years	4.00–6.00 P. M.,	" 19
Geometry (Pl. and Sol.)	8.00–10.00 A. M.,	" 20
History III	10.30 A.M.–12.30 P. M.,	" 20
Advanced French	1.30–3.30 P. M.,	" 20
Advanced Latin	4.00–6.00 P. M.,	" 20
History I	8.00–10.00 A. M.,	" 21
Trigonometry	10.30 A. M.–12.30 P. M.,	" 21
Advanced German	1.30–3.30 P. M.,	" 21
English	4.00–6.00 P. M.,	" 21

ORDER OF EXAMINATIONS IN SEPTEMBER, 1907

History III	1.30–3.30 P. M.,	Sept. 12
Preliminary Greek, Biology	4.00–6.00 P. M.,	" 12
Elementary French	8.00–10.00 A. M.,	" 13
Elementary German	10.30 A. M.–12.30 P. M.,	" 13

Chemistry	1.30–3.30 P. M.,	Sept. 13
History II	4.00–6.00 P. M.,	" 13
Latin, Preliminary and Two Years	8.00–10.00 A. M.,	" 14
Trigonometry	10.30 A. M.–12.30 P. M.,	" 14
English	1.30–3.30 P. M.,	" 14
Advanced Greek, Physics	4.00–6.00 P. M.,	" 14
History I	8.00–10.00 A. M.,	" 16
Advanced Latin	10.30 A. M.–12.30 P. M.,	" 16
Geometry (Pl. and Sol.)	1.30–3.30 P. M.,	" 16
Advanced German	4.00–6.00 P. M.,	" 16
Algebra (Elem. and Adv.)	8.10–10.00 A. M.,	" 17
Advanced French	10.30 A. M.–12.30 P. M.,	" 17

Candidates presenting Greek or Latin (except two years) for admission must take both the preliminary and the advanced examinations; candidates presenting one year of French or German will take the elementary examinations; those presenting two or more years of French or German will take both the elementary and advanced examinations.

Each candidate taking an examination in Chemistry, Physics, or Biology must present a laboratory note-book certified by his teacher. Note-books will be returned to owners at any time within a year.

A candidate for admission may take all the examinations at one time, or he may divide them between June and September of the same year, but it is expected that every candidate will conform strictly to the appointed schedule as to time and place for the several examinations. Certificates will be issued for such subjects as are passed at each examination, and these certificates will be accepted for admission at any time within a year; reports of the June examinations will be sent out about July 10th.

The supply of old examination papers which heretofore have been sent free to any applicant has been exhausted. Beginning with 1906, the June examination papers of each year will be issued in pamphlet form, and will be sent to any address on receipt of fifteen cents in stamps. The September examination papers are not for distribution.

PRELIMINARY AND ELEMENTARY EXAMINATIONS

Candidates for admission are allowed to take examinations on a part of the requirements one year before matriculation, according to the following specifications: —

Latin: 1. The translation at sight of simple prose and verse.

2. A thorough examination on Cicero's speeches against Catiline ii, iii, and iv, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Greek: 1. The translation at sight of simple Greek prose.

2. A thorough examination on Xenophon's Anabasis, Book ii, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Greek prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

French: Grammar, including composition, and translation of works read during first year, as indicated under the requirements in French.

German: Grammar, including composition, and translation of works, as indicated under the first year requirements in German.

In these examinations no conditions will be imposed, and a failure in any subject will necessitate the re-examination of the candidate in the department to which that subject belongs.

Candidates who have passed the examination will receive certificates for the work done, and these certificates, when presented in the following year, but not later, will be received in place of an examination, in the subjects mentioned in them.

In addition to the above partial examinations candidates are advised to anticipate the final examinations in Plane Geometry, History, and the sciences. Neither History I nor History II can be subdivided between two examinations; either Ancient History, English, American, or European History may be presented as an *additional year* of history. Candidates who intend to present Mathematics II are advised to take examinations in Elementary Algebra and Plane Geometry a year in advance of entering college.

II. ADMISSION BY CERTIFICATE

In place of examinations, certificates will be accepted from preparatory schools which have been approved for the certificate privilege of admission. Blank certificates may be obtained from the Dean of the Faculty after May first of each year.

All preparatory schools in New England must be approved by the New England College Entrance Certificate Board; this Board is an association of colleges established for the purpose of receiving, examining, and acting upon all applications of schools in New England which ask for the privilege of certification. This association includes Amherst, Boston University, Bowdoin, Brown, Dartmouth, Mount Holyoke, Smith, Tufts, University of Maine, Wellesley, and Wesleyan. Certificates are in all cases passed upon, as heretofore, by the individual college, but students are received on certificate from such schools only as have been approved by this Board. All schools in New England, which desire the certificate privilege, should apply to the Secretary of the Board, Prof. Nathaniel F. Davis, 159 Brown St., Providence, R. I. before April first.

All schools outside of New England, which desire the certificate privilege, should send to the Dean of the Faculty for a printed form of application, containing the conditions for the approval of a school and the requirements which should be met. All applications for approval by the Faculty of the College should be made before *May first.* Approval of a school will be withdrawn whenever it appears that the work of the school does not reach the standard desired by the College.

Certificates should meet the requirements in full, but a certificate will be accepted if it covers two-thirds of the requirements and the candidate will be examined on the remainder; if the certificate fails to cover at least two-thirds of the requirements, the candidate must be examined in full. When a candidate has received his preparation in more than one school, the principal of each school must certify to the work done in his school.

Certificates must be made out on blanks furnished by the Dean of the Faculty, and should be filed at his office before *July first.*

No certificate will be accepted from a private tutor.

School diplomas will not be accepted for admission to College.

The certificates issued as the result of the examinations which are

held by the College Entrance Examination Board will be accepted in so far as they meet the requirements for admission to Dartmouth College.

III. ADMISSION BY REGENTS' CREDENTIALS

Diplomas and sixty Count certificates issued by the Regents of the University of the State of New York are accepted in place of examinations in all subjects required for admission which are covered by such credentials.

No other credentials, including pass cards and certificates issued by the Regents are accepted unless they are presented by the holder of a Regents' diploma or sixty Count academic certificate.

IV. ADMISSION TO ADVANCED STANDING

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter, or in others equivalent to them. Certificates from schools are not accepted for studies which are offered for advanced standing.

Students from other Colleges, which require the same or equal terms of admission with Dartmouth, and which offer the same or equal courses of study, will be credited with the work for which they bring the record of full standing in their letters of transfer. The following credentials are necessary: a letter of honorable dismissal, a statement of method of admission, an official detailed statement of the studies by terms or semesters with standing in same, the exact number of terms of attendance, and a catalogue of the institution marked showing each subject completed.

The privileges of the College are extended to special students who are qualified by age, character, practical experience, and habits of study to profit by college courses. Such properly qualified persons may be admitted as special students upon presenting satisfactory credentials and testimonials, and giving evidence that they are qualified to do specialized work of an advanced character.

The College makes no provision under the term of Special Students for those whose deficiencies in examination will not allow them to enter in full standing.

MATRICULATION

After registration and the acceptance of the examination papers or certificates at the office of the Dean, and the payment of the tuition for the first semester at the office of the Treasurer, the student will receive his matriculation papers from the President of the College.

CREDIT FOR WORK OUTSIDE OF COLLEGE COURSES

No time credit for work outside the College courses shall be allowed without examination.

Credit toward a degree for work done outside of College will be allowed on the applicant's passing an examination in the course for which he wishes credit, provided this examination be taken before the applicant begins work in that department.

The omission of elementary courses in any department, without time credit, and admission to more advanced courses in the same department, may be permitted without examination in cases in which certification admits to advanced courses: in other cases only upon examination.

The substitution of a course in one department for a required course in another department can be permitted only upon a satisfactory examination in the required course.

GRADUATE STUDENTS

Applicants for an advanced degree, whether resident or non-resident, are required to announce to the Dean not later than the first day of the college year the particular branches of study to which they wish to give attention during the year, together with all needed statistics and facts. Blanks for this purpose may be obtained on application. The supervision of their work will then be entrusted to the Committee on Graduate Instruction, to whom all inquiries for further details should be addressed.

Graduates of this or any other College, desirous of pursuing their studies in residence, without reference to a degree, may attend the public lectures of the College, and use the library, laboratories, apparatus, and scientific collections, subject to such rules as the Faculty may establish.

COURSES OF INSTRUCTION

The courses of instruction offered lead to the degree of Bachelor of Arts or of Bachelor of Science (Chandler Scientific Course).

GROUP SYSTEM OF STUDIES

In this system the different departments of instruction are arranged under three groups, namely, "Language and Literature," "Mathematics and the Physical and Natural Sciences," and "History, the Social Sciences, and Philosophy," as follows: —

GROUP I	GROUP II	GROUP III
LANGUAGE AND LITERATURE	MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES	HISTORY, THE SOCIAL SCIENCES, AND PHILOSOPHY
Comprising the Departments of	*Comprising the Departments of*	*Comprising the Departments of*
Greek	Mathematics	History
Latin	Graphics	Modern History
English	Engineering	The Far East
French	Physics	Economics
Spanish	Astronomy	Political Science
Italian	Chemistry	Sociology
German	Biology	Philosophy
Linguistics	Anatomy and Physiology	Biblical Literature
	Mineralogy and Geology	Music
		Archæology
		Fine Arts
		Education

The courses in each department of instruction are graded as A, B, or C; A being the lowest, and C the highest. An A course usually signifies the first or second year's work in College; a B course, the second or third year's work; a C course, the third or fourth year's work.

MAJORS AND MINORS

The Group System requires electives in certain departments of study, designated as Majors and Minors.

A Minor study consists of at least twelve semester hours in one department; six semester hours in each of two grades, A, B or C. A Major study consists of at least eighteen semester hours in one department; six semester hours in each grade A, B, and C. Courses graded as "B or C" count as B courses when only the regular work of the course is required, but may count as C courses when additional work is assigned by the instructor.

In certain cases a Major or a Minor is made up from a combination of courses in the different departments, as indicated under "Departments of Instruction." Any exceptions to the above requirements in number of hours and any combinations of departments will be found after the description of courses in those departments in which exceptions are made.

REQUIREMENTS FOR BACHELOR'S DEGREE

The Group System requires that a candidate for the Bachelor's degree must complete a Major study in one of the three groups, and a Minor study in *each* of the other two groups. An average rank of 60 per cent is required for the group of courses presented by a student for his Major.

A candidate for the B.S. degree, however, must also have completed twelve semester hours of Mathematics, or of Physics, or of Chemistry, or of Biology, and six semester hours of *each* of the other three. Students who take their senior year in the Thayer School are allowed to substitute Graphics for Biology, and to meet the requirement for a Minor in Group III by History 1 and 2 and six more semester hours in that group.

For the Bachelor's degree fifteen (15) hours per week in each semester are required, and for the Freshman class one additional hour in Physical Culture each semester, — the whole amounting to one hundred and twenty-two semester hours. No Senior will be recommended for a degree who has not completed 12 hours in the second semester, unless he has completed the requirement for a degree at the end of the first semester.

Successful candidates for a degree are required to be present at the time the degrees are conferred unless previously excused by the President.

In Freshman year the studies are mainly prescribed. Candidates for the A.B. degree must continue the subjects presented for entrance, except History. Those presenting Greek must continue Greek, Latin, English, Mathematics, and choose between French and German. Those entering without Greek must continue Latin, English, Mathematics, and the advanced French or German presented, and must choose between Greek and the other modern language. Candidates for the B.S. degree must continue English, Mathematics, and the advanced French or German presented, must choose between Greek and the other modern language, and must choose one of the five following: Graphics, Chemistry, Biology, Physics, History. Studies elected for Freshman year become prescribed and must be completed to secure a degree.

Members of the Chandler Scientific Course may substitute for the elective studies of Senior year the work of the first year in the Thayer School of Civil Engineering. They may be candidates for the degree of Bachelor of Science with their class, and after a second year of work in the Thayer School they may receive the degree of Civil Engineer. The conditions for such an election will be found under the Thayer School of Civil Engineering.

Candidates for either Bachelor's degree offered by the College who have met the requirements in electives and in rank, as outlined under Conditions for Admission to the Tuck School of Administration and Finance, may elect the first-year course in the Tuck School for their work of Senior year. At the close of the year, they may graduate from the College with the Bachelor's degree for which they entered. After a year of graduate study in the Tuck School, they may receive the degree of Master of Commercial Science. The conditions for such an election will be found under the Tuck School.

Students who intend to enter the Medical Department may receive credit for the first year of the medical course by electing such studies as are prescribed for that year, and by registering in the Medical School at the opening of Senior year. The conditions for such an election will be found under the Medical School.

RULES GOVERNING THE ELECTION OF STUDIES

(1) Every student, in making his elections, must meet the requirements and conform to the conditions of the studies he may choose, as set forth in the "Departments of Instruction," and in the "Outline of Studies." The choice of any elective involves the same requirement in respect to attendance and scholarship as for a prescribed study.

(2) Elections for the second semester must be communicated to the Dean, in writing, on or before January 10, and for the first semester on or before June 1.

(3) Fifteen hours per week in each semester must be elected by each student except by Seniors who have exceeded the required number of hours in previous years; such Seniors may elect as few as twelve hours in each semester provided the total number of hours for the four years meets the requirement for a degree. After Freshman year a student having an average of not less than 70 per cent for the previous semester at the time of making elections may elect eighteen hours.

(4) A student, whose standing is less than 70 per cent for the last completed semester at the time of making elections, will not be permitted to elect more than sixteen hours, unless the election of five courses requires seventeen hours.

(5) No student will be allowed to elect a study with a class above his own, or any group of electives involving more than a total number of eighteen exercises a week, except by vote of the Committee on Administration. A student may elect studies assigned to a class below his own, subject to the approval of the instructor concerned.

(6) A student beginning a modern language in the first semester must continue it through the year.

(7) Students who take their Senior year in the Tuck School or the Medical School are required to elect eighteen hours per week.

(8) Any student failing to make his elections at the specified time shall pay into the College Treasury three dollars.

(9) No student will be allowed to change his elections, except by special permission of the Dean, when found to be necessary, and after the payment of two dollars into the College Treasury.

(10) **The Faculty will ordinarily withdraw any elective study not chosen by at least four students.**

A student in making his elections for Sophomore and for Junior years should indicate in which *group* he intends to secure a Major, and in making his elections for Senior year should indicate the *departments* in which he intends to secure his Major and his two Minors.

DEPARTMENTS OF INSTRUCTION

GREEK

I

GREEK LITERATURE

1. *Beginners' Course.*

Mr. PUTNAM. First Semester, 3 hrs.

Grammar and Reader. A course for students who entered without Greek, and who wish to begin it in College.

2. *Beginners' Course (continued).*

Mr. PUTNAM. Second Semester, 3 hrs.

Selections from Xenophon's *Anabasis.* Prose Composition.

3. *Elementary Reading Course.* A

Mr. PUTNAM. First Semester, 3 hrs.

Selections from Attic Prose. Systematic study of Syntax.

A course in Sophomore year for students who took Courses 1 and 2 in Freshman year.

4. *Homer, Elementary Course.* A

Mr. PUTNAM. Second Semester, 3 hrs.

Selections from the *Iliad.* Introduction to Homeric language and verse. To follow Course 3.

5. *Xenophon and Plato.* A

Professors C. D. ADAMS and G. D. LORD. First Semester, 3 hrs.

Selections from Xenophon's *Memorabilia.* Plato, *Apology.* Freshman course.

6. *Lysias.* A

Professors C. D. ADAMS and G. D. LORD. Second Semester, 3 hrs.

Selected Speeches of Lysias. Studies in Greek History and Antiquities.

7. *Demosthenes.* B

Professor C. D. ADAMS. First Semester, 3 hrs.

De Corona. The reading course is preceded by a careful study of the history of Greece from the close of the Peloponnesian War to the death of Alexander, with lectures upon the significance of the struggle with Philip. The oration is studied with special emphasis upon its rhetorical features.

8. *Sophocles.* B

Professor C. D. ADAMS. Second Semester, 3 hrs.

Œdipus Tyrannus. Lectures on the development of Greek Drama.

9. *Thucydides.* C

Professor C. D. ADAMS. First Semester, 3 hrs.

The reading of selections from Thucydides, with studies in Greek Syntax.

Offered in 1907–1908.

10. *Æschylus.* C

Professor G. D. LORD. Second Semester, 3 hrs.

The *Oresteia.* The three dramas will be studied in part by class translation, and in part by reading and lectures by the instructor. Lectures on dramatic criticism.

Offered in 1907–1908.

11. *Plato.* C

Professor C. D. ADAMS. First Semester, 3 hrs.

The *Phædo* and selections. Introduction to Platonism. Collateral reading in the History of Greek Philosophy.

Courses 9 and 11 are offered in alternate years.

12. *Epic Poetry.* C

Professor G. D. LORD. Second Semester, 3 hrs.

The *Iliad* and the *Odyssey* will be read, partly in English versions with the purpose especially of cultivating literary appreciation of each poem as a whole in the form in which we now have it. Special problems in theories of the European origin of the poems will be discussed, and a condensed history of Homeric Criticism will be given.

Courses 10 and 12 are offered in alternate years.

13. *Greek Historians.*

Professors C. D. ADAMS and HUSBAND. First Semester, 3 hrs.

(a) Greek Historiography. Lectures on the development of historical writings down to the period of Xenophon. Studies in the fragments of the earlier writers, and readings in Herodotus.

(b) Thucydides. Translation and interpretation. Syntactical and textual studies.

Open to graduate students only. Not offered in 1906–1907.

14. *Greek Historians.*

Professors C. D. ADAMS and HUSBAND. Second Semester, 3 hrs.

(a) Study of the portrayal of the democracy and its leaders by Aristophanes, Thucydides, and other contemporary writers.

(b) Continuation of Course 13 (b).

Open to graduate students only. Not offered in 1906–1907.

II

GREEK LANGUAGE

15 and 16. *Greek Composition.* B

Professor C. D. ADAMS. First and Second Semesters, 1 hr.

Exercises in writing Greek. Spieker's *Greek Prose Composition.*

17 and 18. *Historical Greek Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

See Courses 3 and 4 under Linguistics.

19. *The Language of Homer.* C

Professor HUSBAND. First Semester, 3 hrs.

See Course 5 under Linguistics.

LATIN

1. *Livy.* A

Professors J. K. LORD, MOORE, and BURTON. First Semester, 3 hrs.

Selections from several books, with reading at sight.

2. *Horace and Terence.* A

Professors J. K. LORD, MOORE, and BURTON. Second Semester, 3 hrs.

Selected *Odes* of Horace; a play of Terence will be read by the class, and one or more plays will be read to the class by the instructor. Lectures will be given on the Roman Theatre and the production of plays.

3. *Tacitus and Martial.* B

Professor MOORE. First Semester, 3 hrs.

The *Agricola* and *Germania* of Tacitus; lectures on Roman Britain, and on the Teutonic nations; selected *Epigrams* of Martial.

4. *Pliny and Catullus.* B

Professor BURTON. Second Semester, 3 hrs.

A selection from the *Letters* of Pliny the Younger, and the *Odes* of Catullus.

5. *Roman Life.* A or B

Professor BURTON. First Semester, 3 hrs.

This course is intended both for students of Latin and for others who are interested in ancient Rome and in the public and private life of the Romans. There will be lectures on the geography and peoples of Italy; the topography and public buildings of Rome; the private house and its furnishings; the daily life of the Roman citizen, his wife, children, and slaves; education and athletic sports; handicrafts and

commerce; the law-courts; the political organization of the state; the army and navy. The lectures will be illustrated by means of plans, pictures, and lantern slides. A considerable amount of supplementary reading will be required. Knowledge of Latin is not essential. Lecture course.

6. *Roman History.* A or B

Professor MOORE. Second Semester, 3 hrs.

The history of the empire, with emphasis upon three periods, — the age of Augustus, the age of the Antonines, the age of Diocletian and Constantine. Special reports will be required, for example, on the sources, the social life of a given period, letters, education, and the like.

Courses 5 and 6 are open to Sophomores, Juniors, and Seniors, and count as A courses for those who have not had Latin in College.

7 and 8. *Latin Composition.* B

Professor MOORE. First and Second Semesters, 1 hr.

The passages will be chiefly from the *de Senectute* of Cicero, a part of which will be read at sight in the class-room. This is an elementary course, and its main object is to give instruction and drill in the principles of Latin grammar, and the correct method of reading.

9 and 10. *Latin Composition.* C

Professor J. K. LORD. First and Second Semesters, 1 hr.

A careful study of the idioms, constructions, and principles of arrangement in Latin composition will be made in connection with translations into Latin of passages based upon assigned portions of Latin authors, and of imitations of other portions set as models.

11. *Cicero.* C

Professor J. K. LORD. First Semester, 3 hrs.

De Oratore. The course will be a study of the development of Roman oratory and of Cicero's theory of oratory. Lectures, and criticisms of special speeches. Each student will be required to study

carefully a speech of Cicero and to prepare and to read before the class an essay upon it.

Courses 11 and 13 are offered in alternate years.

12. *Horace.* C

Professor J. K. LORD. Second Semester, 3 hrs.

The *Satires* and *Epistles* of Horace, with special reference to the social life of the times.

Courses 12 and 14 are offered in alternate years.

13 *Latin Literature.* C

Professor J. K. LORD. First Semester, 3 hrs.

Selections from different authors illustrating the development of the literature. Lectures will be given upon the literature and upon individual authors, and essays and reports upon subjects assigned for special study in connection with the course will be required of the students.

Offered in 1907-1908.

14. *Seneca.* C

Professor J. K. LORD. Second Semester, 3 hrs.

The *Essays* and *Epistles* of Seneca.

Offered in 1907-1908.

15. *Vergil.* C

Professor BURTON. First Semester, 3 hrs.

Translation and discussion of parts of each work. Investigation of the following subjects: Latin epic, didactic, and pastoral poetry; the life of Vergil; his sources and the influence of other writers upon him; the mediæval conception of Vergil.

Offered in 1907-1908.

16. *Roman Satire.* C

Professor BURTON. Second Semester, 3 hrs.

The development of this form of literature will be considered in its various phases. The class will read selections from Merrill's *Frag-*

ments of Roman Satire and some of the *Satires* of Horace, Persius, and Juvenal.

Offered in 1907-1908.

17. *Plautus and Petronius.* C

Professor BURTON. First Semester, 3 hrs.

The *Trinummus* and *Captivi* of Plautus, and selections from the *Cena Trimalchionis* of Petronius.

Courses 15 and 17 are offered in alternate years.

18. *Law Latin.* C

Professor MOORE. Second Semester, 2 hrs.

A very general introduction to the language of the Roman Law. Robinson's *Selections from the Public and Private Law of the Romans.*

19 and 20. *Historical Latin Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

See Courses 7 and 8 under Linguistics.

Offered in 1907-1908.

22. *Latin Sounds.* C

Professor HUSBAND. Second Semester, 3 hrs.

See Course 10 under Linguistics.
Offered in 1907-1908.

23 and 24. *Tacitus.*

Professor MOORE. First and Second Semesters, 3 hrs.

A critical reading of the *Histories*, Books I and II.

Open only to graduate students.

ENGLISH

I

COMPOSITION, RHETORIC, AND CRITICISM

1 and 2. *English Composition and Rhetoric.* A

Professor KEYES, Messrs. WATSON, GROVES, and MUSGROVE.

First and Second Semesters, 3 hrs.

An introduction to the study of Rhetoric, with the preparation and criticism of themes, and constant reference to printed examples of correct and incorrect style. (Pearson's *Principles of Composition*, Hill's *Principles of Rhetoric*, Newcomer's *Elements of Rhetoric*.)

3 and 4. *English Composition and the Elements of Style.* B

Mr. GROVES. First and Second Semesters, 3 hrs.

This course is designed to acquaint the student with the finer elements of style, both in prose and in verse, and to enable him to use his knowledge in effective literary expression. Daily reports and weekly themes, based upon a wide range of assigned readings in eighteenth century literature.

5. *Advanced English Composition.* B

Mr. GROVES. First Semester, 3 hrs.

Daily and weekly themes. This course is open to such Seniors and Juniors as are competent to pursue and profit by the course (Baldwin's *College Rhetoric*.)

6. *English Criticism.* B

Mr. GROVES. Second Semester, 3 hrs.

II

ORATORY AND ARGUMENTATION

8. *Oratory.* A

Professor LAYCOCK. Second Semester, 1 hr.

The purpose of this course is to furnish *personal drill* to those students who are specially interested in the Art of Public Speaking. Original orations and declamations will be delivered before small divisions, and each student will be given personal attention by the instructor.

9. *Argumentative Composition and Oratory.* B

Professor LAYCOCK, Messrs. HASTINGS and WATSON.

First Semester, 3 hrs.

Lectures, Recitations, Briefs, and Forensics, with daily practice in the application of rhetorical and oratorical principles to argumentation. (Laycock and Scales' *Argumentation and Debate.*)

10. *Argumentative Oratory.* B

Professor LAYCOCK, Messrs. HASTINGS and WATSON.

Second Semester, 3 hrs.

This is a continuation of Course 9, and is open only to such students as have passed in that course. It will consist of the preparation of numerous briefs and forensics for debate, and daily practice in Oratorical Argumentation.

11. *Voice Culture and History of Oratory.* C

Professor LAYCOCK. First Semester, 3 hrs.

Lectures, Recitations, and Exercises in Voice Culture. Theses will be written and delivered before the class by the students in this course. (Hardwicke's *History of Oratory and Orators.*) Open only to those who have had English 9 and 10.

Courses 11 and 13 are offered in alternate years.

13. *Forensic Oratory.* C

Professor LAYCOCK. First Semester, 3 hrs.

This course is planned especially for those who expect to become lawyers. (Robinson's *Forensic Oratory.*) Open only to those who have had English 9 and 10.

Offered in 1907–1908.

III

LITERATURE AND PHILOLOGY

15. *English Literature.* B

Professor RICHARDSON. First Semester, 3 hrs.

Lectures, with daily illustrations from representative authors. This course is designed to set forth the philosophy of literature, and the relation of writers to their predecessors and contemporaries.

History 1 and 2 are prerequisites for this course.
Not offered in 1906–1907.

15 a. *English Literature.* B

Professor EMERY. First Semester, 3 hrs.

Lectures, Reports on assigned readings, and Criticisms. This course is designed to teach the history of English thought and literature and to familiarize the student with the English classics.

16. *American Literature.* B

Professor EMERY. Second Semester, 3 hrs.

Lectures, recitations, and daily readings from representative authors, with discussions tending toward the development of independent critical power. (Richardson's *American Literature.*)

English 15 or 15 a is a prerequisite for this course.

17 and 18. *Old English.* (*Linguistics 11 and 12.*) C

Professor HARDY. First and Second Semesters, 2 hrs.

Grammar; reading of selections from Bright's *Anglo-Saxon Reader;* lectures on Old English phonology and morphology.

Second semester: study of a selected text.

This course is open to Seniors who have attained an average rank of 75 in all their previous English courses, and to graduate students. Not offered in 1906–1907.

19. *English Lyric Poetry.* C

Professor RICHARDSON. First Semester, 3 hrs.

Lectures on the unity of the arts, and on the principles of versification. (Palgrave's *Golden Treasury.*)

This course is open only to Seniors. Not offered in 1906–1907.

19a. *English Fiction.* C

Professor EMERY. First Semester, 3 hrs.

Lectures on the history of English Fiction, with reports upon assigned readings of the classic romances and novels.

20. *Middle English.* (*Linguistics 14.*) C

Professor HARDY. Second Semester, 3 hrs.

Grammar and reading of selections from Emerson's *Middle English Reader.* Special attention will be given to the relation of Middle English to Old English and Modern English. Courses 17 and 18 are prerequisites for this course, except that students who have taken Course 17 may take this course and Course 18 at the same time.

21. *The English Drama.* C

Professor EMERY. First Semester, 3 hrs.

Lectures on the history of the Drama, from the Miracle Plays to the Closing of the Theatres, with constant reading, and oral and written criticism of the plays considered.

This course is open only to Seniors. Not offered in 1906–1907.

22. *Shakespeare.* C

Professor EMERY. Second Semester, 3 hrs.

The critical and appreciative study of Shakespeare's plays, with lectures upon Shakespeare as a dramatic artist. Daily reports upon assigned readings will be required. This course is a continuation of Course 21, and is open only to such students as have passed in that course.

23 and 24. *English Composition and Literature.* C

Professor EMERY. First and Second Semesters, 1 hr.

An advanced course in composition, with theses upon topics taken from the history of literature and criticism.

25 and 26. *The Development of the English Drama.*

Professor EMERY. First and Second Semesters, 3 hrs.

A study of the origin and sources of the English drama, and a comparison of English and foreign dramatic form and subject-matter. This course is primarily for graduates.

ROMANÇE LANGUAGES

FRENCH

I

GRAMMAR AND TRANSLATION

1. *First Year Course.*

Professor DOW and Mr. WESTON. First Semester, 3 hrs.

Pronunciation; elements of grammar with oral and written exercises to illustrate their application (*Brief French Grammar*, Ginn & Co.); translation and sight-reading of easy French prose (Rambeau's *French Reader*, Henry Holt & Co.); simple paraphrasing in French of portions of the text read.

2. *First Year Course.*

Professor DOW and Mr. WESTON. Second Semester, 3 hrs.

Continuation of Course 1. Translation and sight-reading of simple French prose. (Mérimée, *Chronique du règne de Charles IX.;* Dumas, *La Tulipe noire;* short stories of Daudet, Maupassant, and others.) Easy oral and written exercises in dictation.

Students taking Course 1 must take Course 2 the next semester. A separate division (known as French 1–2 advanced) made up of students who have had a slight preparation in French will be formed for the sake of pursuing somewhat more advanced work than that of the other divisions.

3. *Second Year Course.* A

Professor TAYLOR and Mr. CAVICCHIA. First Semester, 3 hrs.

Translation and sight-reading of ordinary French prose (Theuriet, *L'Abbé Daniel;* Dumas, *Monte Cristo;* Thiers, *Expédition de Bonaparte en Égypte*). Grammar and composition will be carried on at the same time.

4. *Second Year Course.* A

Professor TAYLOR and Mr. CAVICCHIA. Second Semester, 3 hrs.

Continuation of Course 3. About, *Le Roi des montagnes;* Maupassant, *Huit contes choisis;* Vigny, *La Canne de jonc.* Grammar and composition.

5 and 6. *Third Year Course.* A

Professors TAYLOR and LANGLEY, and Messrs. WESTON, CAVICCHIA, and MURRAY. First and Second Semesters, 3 hrs.

A careful review of grammar (Chardenal's *Complete French Course*). Practice in writing French. Translation of more difficult modern French prose and poetry, such as Balzac, *Eugénie Grandet;* Zola, *La Débâcle;* Hugo, *Les Misérables;* Pailleron, *Le Monde où l'on s'ennuie;* Molière, *Le Bourgeois gentilhomme.*

Courses 5–6 are prescribed for Freshmen who offered two years of French for admission to College.

II

COMPOSITION AND CONVERSATION

7 and 8. *Elementary Courses.* B

Professors TAYLOR and LANGLEY. First and Second Semesters, 2 hrs.

Such books as Jacques' *Intermediate French* and François's *French Composition.* Practice in speaking and writing French. Dictations, readings, and talks in French. The aim of the course is to enable the student to understand readily spoken French, to train him in the use of common idioms, and to familiarize him with the characteristic features of French public and private life, as subject-matter for conversation. Open to students who have passed in Courses 3–4 or

5–6, and to such other students as may satisfy the instructor of their ability to do the work of the course.

9 and 10. *Advanced Courses.* C

Professor DOW. First and Second Semesters, 3 hrs.

These courses are conducted entirely in French. Lectures, outside readings, and discussions upon such subjects as the following: Government and administration; politics; church and state; public education; organization of army and navy; family and social life; art and literature. Beside the instruction in composition and conversation the aim of the courses is to cultivate an appreciation of the French point of view. Open only to students who have attained grade A in Courses 7 and 8.

III

LITERATURE

11. *General Survey of French Literature.* B

Professor SKINNER and Mr. CAVICCHIA. First Semester, 3 hrs.

In this course students will be given an opportunity to become acquainted with many of the literary masterpieces produced in France during the last three centuries, and at the same time to form some idea of the development of French literature from its beginnings to the present day. Works of the following authors will be read in the class room: Corneille, Racine, Molière, La Fontaine, Descartes, and Pascal. In addition there will be required a considerable amount of collateral reading. Open to students who have passed Courses 3–4, 5–6, and, by permission of the instructor, to such others as may be able to do the work of the course.

12. *General Survey of French Literature.* B

Professor SKINNER and Mr. CAVICCHIA. Second Semester, 3 hrs.

Continuation of Course 11. Special attention in this course will be paid to authors of the eighteenth and nineteenth centuries. The class will read selections from the works of Voltaire, Rousseau, Beaumarchais, Chénier, Chateaubriand, Hugo, Alfred de Musset, Alfred de Vigny, Th. Gautier, George Sand, Balzac, Leconte de Lisle, Flaubert, Taine, Renan, Verlaine, Heredia, and Sully-Prudhomme.

13 and 14. *Seventeenth Century Literature.* C

Professors DOW and LANGLEY and Mr. WESTON.

First and Second Semesters, 3 hrs.

A study of the origin and development of the various forms, with particular attention to the classic French theatre. Reading in class of the masterpieces of Corneille, Pascal, Racine, Molière, La Fontaine, and Boileau. Lectures, themes, collateral reading, and reports. Open to those students who have passed in Courses 11–12, and to such others as may satisfy the instructor of their ability to do the work of the course.

15 and 16. *Eighteenth Century Literature.* C

Mr. WESTON. First and Second Semesters, 3 hrs.

This course will be devoted chiefly to the study of Voltaire and Rousseau as embodying the ideas which had important bearing upon the French Revolution. Attention will be given also to Montesquieu, Buffon, and the Encyclopedists. The theatre of the eighteenth century and the development of the novel will be studied. In addition to lectures and readings in the class-room, a considerable amount of collateral reading will be required. Open to those students who have passed in Courses 11–12, and to such others as may satisfy the instructor of their ability to do the work of the course.

Courses 15 and 16 offered in 1907–1908.

17 and 18. *Nineteenth Century Literature.* C

Professors DOW and LANGLEY. First and Second Semesters, 3 hrs.

A study of the French and the foreign origins of romanticism in France; of the conflict between romanticism and classicism; of the origin and growth of realism; of the influence of the Northern literatures in France, and of the more recent movements in French literature. Lectures, reading in class, themes, collateral reading, and reports. Open to those students who have passed in Courses 11–12, and to such others as may satisfy the instructor of their ability to do the work of the course.

19 and 20. *Sixteenth Century Literature.* C

Professor TAYLOR. First and Second Semesters, 3 hrs.

This course is a study of the language and literature of France during the period of transition from mediæval to modern times.

There will be introductory lectures upon the language and literature of the Old French period, followed by critical readings of Marot, Ronsard, Rabelais, Montaigne, and other representative writers of the Renaissance period. *Le seizième Siècle*, Darmestetter-Hatzfeld (Paris, 1893), will be used as a hand-book. Open, after consultation with the instructor, to those students who have had any two of the grade C literature courses.

21 and 22. *Historical French Grammar.* C

Professor SKINNER. First and Second Semesters, 3 hrs.

See courses 19 and 20 under Linguistics.

A Major in French must include two courses in Composition and Conversation.

SPANISH

1 and 2. *Elementary Courses.* A

Professor SKINNER and Mr. CAVICCHIA.

First and Second Semesters, 3 hrs.

Elementary course in grammar, composition, and reading. The object of the course is to enable the student at the end of the year to translate easy English into Spanish, and to read with little difficulty modern prose. The text-books used will be as follows: Hills and Ford, *Spanish Grammar;* Padre Isla, *Gil Blas;* Alarcón, *El Capitán Veneno;* Galdós, *Doña Perfecta;* Moratín, *El sí de las Niñas.*

Students are not allowed to elect Spanish 1 and 2, and Italian 1 and 2 in the same year. Spanish 1 will not count toward a degree without Spanish 2.

3 and 4. *Advanced Courses.*

Professor SKINNER. First and Second Semesters, 3 hrs.

In the first part of the year grammar study and composition will be continued. In reading, attention will first be paid to the more important contemporary writers, and afterwards to the classic authors of the sixteenth and seventeenth centuries. The whole or parts of the following works will be read: Alarcón, *Historietas Nacionales;* Ford, *Spanish Anthology;* Cervantes, *Don Quixote;* Calderón, *El Alcalde de Zalamea; El Lazarillo de Tormes.* In addition, parts of Ticknor's *History of Spanish Literature* will be read.

ITALIAN

1. *Elementary Course.* A

Professor LANGLEY. First Semester, 3 hrs.

Elementary course in grammar, composition, and reading.

Text-books to be used: Grandgent's *Italian Grammar* and *Italian Composition;* Bowen's *Italian Reader;* Goldoni's *Il vero amico;* Manzoni's *I promessi sposi;* Barrili's *Una notte bizzarra.*

2. *Dante's Divina Commedia.* A

Professor LANGLEY. Second Semester, 3 hrs.

(Scartazzini's one-volume edition.) Translation and interpretation of the *Inferno.* Lectures and collateral readings.

To count for a degree both of the above courses must be taken. Students are not allowed to elect Italian 1 and 2 and Spanish 1 and 2 the same year, without the consent of the instructors.

4. *Rapid Reading Course.* A

Professor LANGLEY. Second Semester, 2 hrs.

This course will give, in addition to training in rapid reading, a survey of representative works of modern Italian literature taken in the following order: (a) prose: Manzoni, Pellico, Serào; (b) drama: Alfieri; (c) lyric poetry: Foscolo, Leopardi, Carducci. Open to students who have had Course 1.

5. *Italian Literature of the Fourteenth Century.* B

Professor LANGLEY. First Semester, 3 hrs.

Continuation of Dante; representative selections from the *Rime* of Petrarch (Carducci's edition), and the *Decamerone* of Boccaccio (Fornaciari, *Novelle scelte*). A study of the literature of the period, using as text-book Gaspary's *Storia della letteratura italiana;* lectures and collateral readings.

6. *General Survey of the Literature of the Renaissance.* B

Professor LANGLEY. Second Semester, 3 hrs.

Representative works of the following authors: Poliziano, Machiavelli, Bembo, Ariosto, Berni, Cellini, Vasari, Guarini, Tasso. As

text-book D'Ancona e Bacci, *Manuale della letteratura italiana*, vols. 2 and 3. Lectures and collateral readings.

Courses 5 and 6 are open to those who have passed in Courses 1 and 2 and to such others as may satisfy the instructor of their ability to do the work of the course.

GERMAN

1 and 2. *Elementary (First Year)*.

Professors W. A. ADAMS, HARDY, Messrs. STEWART, ECKELMANN, and MITCHELL. First and Second Semesters, 3 hrs.

(a) Pronunciation, (b) Memorizing and frequent repetition of easy colloquial sentences, (c) Rudiments of Grammar with exercises, (d) Reading selections from a German Reader, (e) Constant practice in translating into German easy variations upon sentences selected from the reading lesson, (f) Reading at sight.

Students taking Course 1 *must* also take Course 2 the next semester. These courses will not count toward Minors or Majors in the Group System.

3 and 4. *Elementary (Second Year)*. A

Professors W. A. ADAMS, HARDY, Messrs. STEWART, ECKELMANN, and MITCHELL. First and Second Semesters, 3 hrs.

Reading of narrative prose, stories, and plays. Grammar, paraphrasing of texts read, word-formation.

Course 3 is a continuation of Courses 1 and 2. Students having had Courses 1 and 2, and wishing to continue their German, *must* choose Course 3. Students taking Course 3 are expected to elect Course 4 the next semester.

5 and 6. *Advanced (Third Year)*. A

Messrs. STEWART, ECKELMANN, and MITCHELL.
First and Second Semesters, 3 hrs.

First semester; Reading of narrative prose and a story. Second semester: Narrative prose; Heine, Prose and Poems. Review of grammar, paraphrasing of texts, word-formation.

Courses 5 and 6 are prescribed for Freshmen who offered two years of German for admission to College. An advanced section will do work of B grade and may be elected by upper classmen.

7 and 8. *Modern German Prose.* B

Professor HARDY. First and Second Semesters, 3 hrs.

Reading of a considerable amount of prose taken from representative modern writers.

9. *Lyrics and Ballads.* B

Mr. STEWART. First Semester, 3 hrs.

Reading of a considerable amount of representative German lyrics and ballads. Study of authors and periods.

Not offered in 1906–1907.

11. *German Drama.* B

Professor HARDY. First Semester, 3 hrs.

Reading of plays with study of the drama. Selection made from the following list: Lessing, *Minna von Barnhelm*, *Emilia Galotti;* Goethe, *Götz von Berlichingen*, *Iphigenie auf Tauris;* Schiller, *Wilhelm Tell.*

12. *German Drama* (*continued*). B

Professor HARDY. Second Semester, 3 hrs.

Continuation of Course 11. Selection made from the following list: Schiller, *Wallenstein;* Kleist, *Der Prinz von Homburg;* Freytag, *Die Journalisten;* Hauptmann, *Die versunkene Glocke;* Sudermann, *Johannes* (or *Die Heimat*).

13 and 14. *Composition and Conversation.* B

Professor W. A. ADAMS, Dr. ECKELMANN, and Mr. MITCHELL.

First and Second Semesters, 3 hrs.

Course 13 is open only to those who have previously had *two* years of German, and have attained an average rank of 70 in all their previous German courses. Course 14 is open only to those who have taken Course 13.

15 and 16. *Nineteenth Century Literature.* C

Mr. STEWART. First and Second Semesters, 3 hrs.

The history of German literature will be traced from the beginning of the Romantic Movement down to the present time with illustrative

readings from various representative writers. The work will consist of lectures, recitations, reports, and outside reading.

Open only to Juniors and Seniors who have previously had *three* years of German.
Courses 15–16 and 19–20 are given in alternate years.

17. *Goethe, Works and Life.* C

Professor W. A. ADAMS. First Semester, 3 hrs.

Poems; Götz von Berlichingen; Iphigenie.

18. *Goethe (continued).* C

Professor W. A. ADAMS. Second Semester, 3 hrs.

Continuation of Course 17. *Faust I* and parts of *Faust II.*

Courses 17 and 18 are open to those who have previously had *two* years of German, but ordinarily would be taken more satisfactorily after *three* years of work in German. Consent of the instructor is necessary for those who have previously had only *two* years of German. Course 18 may be chosen by those who have not taken Course 17.

19 and 20. *History of German Literature.* C

Professor W. A. ADAMS. First and Second Semesters, 3 hrs.

History of German Literature down to the nineteenth century, supplemented by the reading of representative pieces of literature. The course is conducted in German. Permission of the instructor required before electing the course.

Offered in 1907–1908.

21. *Goethe's Life and Works and their Significance.* C

Professor W. A. ADAMS. First Semester, 1 hr.

Lectures. Assigned readings. Knowledge of German not required.

23 and 24. *Middle High German.* (*Linguistics 15 and 16.*) C

Professor HARDY. First and Second Semesters, 2 hrs.

Phonology and morphology; reading of selections from Bachmann's *Mittelhochdeutsches Lesebuch;* lectures on the historical development of the German language. Permission of the instructor required before electing these courses.

Not offered in 1906–1907.

25. *Gothic.* (*Linguistics 17.*) C

Professor HARDY. First Semester, 3 hrs.

The phonology and morphology will be studied with special attention to the Primitive Germanic forms, and selections from the Bible translation of Wulfila will be read. The course is intended for students of German or of English. Permission of instructor required before electing this course.

Not offered in 1906–1907.

27. *Lessing.*

Professor W. A. ADAMS. First Semester, 3 hrs.

Advanced course in Lessing. Open only to graduate students.

28. *Goethe.*

Professor W. A. ADAMS. Second Semester, 3 hrs.

Advanced course in Goethe. Open only to graduate students.

LINGUISTICS

(COURSES 1–12 NOT OFFERED IN 1906–1907.)

1. *Principles of Linguistic Science.* C

Professor HUSBAND. First Semester, 3 hrs.

Phonetics; the life and growth of language; rise and differentiation of dialects; relation of sound changes in some of the principal European Languages. Open to Seniors.

3 and 4. *Historical Greek Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

Pronunciation; accentuation; the Indo-European sounds and inflections in Greek; historical syntax. Open to Seniors.

5. *The Language of Homer.* C

Professor HUSBAND. First Semester, 3 hrs.

Reading of dialect inscriptions in their relation to the Homeric language; study of sounds and inflections in Homer; comparison of the language of different parts of the Iliad. Open only to those who have taken Courses 3 and 4.

7 and 8. *Historical Latin Grammar.* C

Professor HUSBAND. First and Second Semesters, 2 hrs.

Pronunciation; accentuation with its effect upon sounds; the Indo-European sounds and inflections in Latin. Open to Seniors.

10. *Latin Sounds.* C

Professor HUSBAND. Second Semester, 3 hrs.

Minute study of the history of Latin sounds; selections from the Latin grammarians dealing with accentuation and sounds.

11 and 12. *Old English.* C

Professor HARDY. First and Second Semesters, 2 hrs.

Grammar; reading of selections from Bright's *Anglo-Saxon Reader;* lectures on Old English phonology and morphology.

This course is open to Seniors who have attained an average rank of 75 in all their previous English courses, and to graduate students.

14. *Middle English.* C

Professor HARDY. Second Semester, 3 hrs.

Grammar and reading of selections from Emerson's *Middle English Reader.* Special attention will be given to the relation of Middle English to Old English and Modern English. Courses 11 and 12 are prerequisites for this course, except that students who have taken Course 11 may take this course and Course 12 at the same time.

15 and 16. *Middle High German.* C

Professor HARDY. First and Second Semesters, 2 hrs.

Phonology and morphology; reading of selections from Bachmann's *Mittelhochdeutsches Lesebuch;* lectures on the historical development of the German language.

Permission of the instructor required before electing these courses. Not offered in 1906–1907.

17. *Gothic.* C

Professor HARDY. First Semester, 3 hrs.

The phonology and morphology will be studied with special attention to the Primitive Germanic forms, and selections from the Bible

translation of Wulfila will be read. The course is intended for students of German or of English.

Permission of instructor required before electing this course.
Not offered in 1906–1907.

19 and 20. *Historical French Grammar.* C

Professor SKINNER. First and Second Semesters, 3 hrs.

Phonology, morphology, and syntax of Old French; reading of texts; historical development of the French language from the tenth century to the present day.

MATHEMATICS

1. *Algebra.* A

Professor WORTHEN, Messrs. BARTON and MOORE.

First Semester, 3 hrs.

Quadratic and indeterminate equations, ratio and proportion, variation, series, binomial formula, logarithms, permutations and combinations, theory of equations, graphic algebra. (Wells's *College Algebra.*)

2. *Solid Geometry and Plane Trigonometry.* A

Professor WORTHEN, Messrs. BARTON and MOORE.

Second Semester, 3 hrs.

(a) Solid Geometry, with original demonstrations, and the solution of problems relating to the surfaces and volumes treated. (Gore.)

(b) Plane Trigonometry, with applications to problems in surveying. (Phillips and Strong.)

3. *Algebra.* B

Professor SHERMAN. First Semester, 3 hrs.

Logarithms, permutations and combinations, probability, continued fractions, summation of series, theory of equations, graphic algebra. (Wells's *Advanced Course in Algebra.*)

4. *Spherical Trigonometry and Analytic Geometry.* B

Professor SHERMAN. Second Semester, 3 hrs.

(a) Spherical Trigonometry, with applications to Geodesy and Astronomy. (Phillips and Strong.) (5 weeks.)

(b) Plane Analytic Geometry as far as the discussion of the general equations of the conic sections. (Hardy.) (13 weeks.)

5. *Algebra, Spherical Trigonometry, and Modern Geometry.* B

Professor WORTHEN. First Semester, 2 hrs.

(a) Algebra. Supplementary to Course 1. Probability, continued fractions, series, determinants, theory of equations, solution of higher equations, graphic algebra. (Wells's *College Algebra.*) (8 weeks.)

(b) Spherical Trigonometry, with applications to Geodesy and Astronomy. (Phillips and Strong.) (5 weeks.)

(c) Introduction to Modern Geometry. (Phillips and Fisher.) (5 weeks).

7. *Analytic Geometry.* B

Professor WORTHEN and Mr. BARTON. First Semester, 3 hrs.

(a) Plane Analytic Geometry, including Higher Plane Curves. (Hardy.) (14 weeks.)

(b) Analytic Geometry of three dimensions. (Hardy.) (4 weeks.)

8. *Differential and Integral Calculus.* C

Professor WORTHEN and Mr. BARTON. Second Semester, 5 hrs.

(a) Differential Calculus, with geometrical applications. (Hardy.) (11 weeks.)

(b) Integral Calculus, with applications to analytic geometry. (Hardy.) (7 weeks.)

9. *Analytic Geometry and Differential Calculus.* C

Professor SHERMAN and Mr. MOORE. First Semester, 5 hrs.

(a) Analytic Geometry, beginning with the discussion of the general equations of the Conic Sections, and including Higher Plane Curves. (Hardy.) (5 weeks.)

(b) Analytic Geometry of three dimensions. (Hardy.) (3 weeks.)

(c) Differential Calculus, with geometrical applications. (Granville.) (10 weeks.)

10. *Differential and Integral Calculus.* C

Professor SHERMAN and Mr. MOORE. Second Semester, 5 hrs.

(a) Differential Calculus. A continuation of Course 9 c. (4 weeks.)

(b) Integral Calculus, with applications to Analytic Geometry

and including the elements of Differential Equations. (Granville.) (14 weeks.)

Courses 1, 2, 5, 7, and 8 are intended for those who enter with Mathematics I; Courses 3, 4, 9, and 10 are intended for those who enter with Mathematics II. Either of the above series is essential for the pursuit of the advanced courses in Engineering, Physics, and Astronomy.

11. *Differential Equations.* C
Professor WORTHEN. First Semester, 3 hrs.

An elementary course involving equations of the first and second orders with two or more variables.

12. *Determinants.* C
Professor SHERMAN. Second Semester, 2 hrs.

Text-book, Weld.

13. *Quaternions.* C
Professor SHERMAN. First Semester, 3 hrs.

Text-book, Hardy.

14. *Elliptic Functions.* C
Professor SHERMAN. Second Semester, 3 hrs.

Text-book, Baker. Supplemented by computation of the functions and problems.

16. *Theory of Functions.* C
Professor WORTHEN. Second Semester, 3 hrs.

An introductory course in the theory of Functions of a complex variable.

17. *Theory of Equations.*
Professor SHERMAN. First Semester, 3 hrs.

This course will comprise the general properties of polynomials and equations, the relation between the roots and coefficients with applications to the symmetric functions of the roots, the transformation of equations, the solution of cubic, biquadratic, binomial, and reciprocal equations, the properties of the derived functions, the symmetric functions of the roots, the limits and separation of the roots, the solution of higher numerical and transcendental equations, complex numbers, and the complex variable.

18. *Determinants.*

Professor SHERMAN. Second Semester, 3 hrs.

An advanced course covering the following topics: symmetrical and skew determinants, Pfaffians, alternants, continuants, Jacobians, Hessians, Wronskians, and linear transformations.

19. *Theory of Functions.*

Professor WORTHEN. First Semester, 3 hrs.

A more advanced course to follow Course 16.

20. *General Theory of Surfaces.*

Professor WORTHEN. Second Semester, 3 hrs.

An elementary course.

Courses 11, 13, 14, and 16 are for graduates and undergraduates.
Courses 17, 18, 19, and 20 are for graduates only.

GRAPHICS

1. *Mechanical Drawing.* A

Professor HAZEN, Messrs. PARKER and BUCKBEE.

First Semester, 3 hrs.

An introductory course treating of the instruments used and the methods of using them. It includes the construction of engineering, mechanical, and architectural drawings, lettering, and shading.

2. *Mechanical Drawing (continued).* A

Professor HAZEN, Messrs. PARKER and BUCKBEE.

Second Semester, 3 hrs.

Tinting. Descriptive Geometry as applied to elementary projection drawing.

3. *Descriptive Geometry.* B

Professor HAZEN. First Semester, 3 hrs.

Descriptive Geometry, as applied to third-angle projections and to the construction of projections and sections from models and actual structures; to the representation by drawings or projections of all geometrical magnitudes; and to the intersections and tangencies of developable, double-curved, and warped surfaces.

4. *Descriptive Geometry (continued).* C

Professor HAZEN. Second Semester, 3 hrs.

Descriptive Geometry continued, and applied to spherical projections, shades, and shadows, and linear perspective, axonometric projections, and cavalier perspective.

Courses 1, 2, 3, and 4 are required for the subsequent election of the Thayer Engineering Course.

5. *Topographical and Machine Drawing.* C

Professor HAZEN. First Semester, 3 hrs.

A course in topographical drawing, machine drawing, and gearing problems, including tracing and blue-printing.

For further courses in Graphics see Thayer School of Civil Engineering.

CIVIL ENGINEERING

2. *Surveying.* B

Professor HAZEN. Second Semester, 3 hrs.

Surveying with level, transit, and compass; the adjustments, care, and proper methods of using these instruments. This course includes the methods of determining areas; laying out and dividing land; practice with the solar transit used in surveying the public lands; determination of true meridian by the sun and polar star; levelling for profiles, city surveying, plotting, and computing from field notes taken in connection with the above work.

For further courses in Engineering see Thayer School of Civil Engineering.

PHYSICS

1 and 2. *General Physics.* A

Professor HULL and Mr. SHEARD.

First and Second Semesters, 3 hrs.

A study of the phenomena and simpler laws of Mechanics, Sound, Heat, Electricity, Magnetism, and Light. Instruction is given by lectures with an ample number of illustrative experiments, by recita-

tions and frequent examinations upon the lectures and text-book assignments.

Courses 1 and 2 belong together and should not be elected separately. Earlier work in Physics is not required for entrance to these courses, but Mathematics 1 and 2, or their equivalents, are a prerequisite.

Physics 3 and 4 may be carried at the same time with 1 and 2. Students intending to specialize in the physical sciences, or who wish to complete a Minor in Physics early in the College course, are advised to elect Courses 1, 2, 3, and 4 in Sophomore year.

3. *Practical Physics.* B

Professor GILBERT, Messrs. ADAMS, NESMITH, and SHEARD.

First Semester, 3 hrs.

A course in the theory and use of instruments of precision and in the experimental verification and application of physical laws. In particular, the micrometer and vernier calipers, the spherometer, and the micrometer eyepiece are used for measuring length; the seconds clock, stop-watch, chronograph, and tuning-fork for measuring time; spring, pan, and analytical balances, and inertia methods for measuring mass; the laws of the pendulum and of falling bodies are used to determine "*g*"; the laws of forces, moments, moments of inertia, centres of mass, Hooke's, Boyle's, and Charles's laws are verified; the densities of solids and liquids are measured in a number of ways; the laws of vibrating strings, the measurement of the period, wave-length, and velocity of propagation of wave disturbances in different media are determined.

While care in manipulation and accuracy of observation are required of the student, it is also essential that he understand thoroughly the principles involved in the experiments. Oral reviews and tests will be held at convenient intervals to determine to what extent these principles have become a part of the student's knowledge.

A laboratory manual (Ames and Bliss) will be used by the student; other texts will be consulted. Laboratory fee, $3.

4. *Practical Physics (continued).* B

Professor GILBERT, Messrs. ADAMS, NESMITH, and SHEARD.

Second Semester, 3 hrs.

A continuation of Course 3, extended into the study and experimental verification of the general laws of Heat, Electricity, Magnetism, and Light.

In Heat, experiments are performed in the study of thermometers, in calorimetry, in the expansion, due to heat, of solids, liquids, and gases, and in the measurement of specific and latent heats.

In Electricity and Magnetism, the exercises include the mapping of electric and magnetic fields and lines of current-flow, the determination of the strength of magnetic fields, the measurement of the resistance of wires, liquids, batteries, and galvanometers, the measurement of electromotive force, capacity, temperature-coefficient of wires, the electrochemical and heat equivalent of an electric current, and the use of the D'Arsonval, Thomson, and tangent galvanometers.

In Light, the laws of photometers and mirrors, the measurement of the focal length and magnifying power of lenses and combinations of lenses, the index of refraction of glass, the spectra of a number of substances, the wave lengths of light, and the simple laws of polarization and double refraction are determined or verified. Laboratory fee, $3.

5. *Analytic Mechanics.* C

Professor GILBERT. First Semester, 3 hrs.

A course of lectures on Statics, including the composition and resolution of forces acting on a particle and on a rigid body; efficiency of machines, sensitiveness of a balance, equilibrium of flexible strings, and the elementary theory of attractions; kinematics; dynamics, the motion of projectiles, collision of elastic bodies, simple harmonic motions, and central orbits. Without sacrificing the rigidity of mathematical deductions, recourse will be had, where occasion permits, to experimental illustrations. Text: Williamson and Tarleton. Prerequisites, Differential and Integral Calculus, and Physics 1 and 2.

Not offered in 1906–1907.

6. *Theory of Heat.* C

Professor HULL. Second Semester, 3 hrs.

A course of lectures and recitations on the theory of Heat; thermodynamics, including the elementary kinetic theory of gases, and the theory of solutions. Lectures and text references. Prerequisites, Differential and Integral Calculus and Physics 1 to 4.

7. *Theory of Light.* C

Professor HULL. First Semester, 3 hrs.

This course will consist of lectures, experimental and theoretical, recitations, and laboratory work. The domain covered will be nearly that of Wood's *Theory of Light.*

8. *Spectroscopy and Radiation.* C

Professor HULL. Second Semester, 2 hrs.

The course will include a critical study of the spectroscope, interferometer, concave and echelon gratings as analysers of radiation; of the bolometer, thermopile, and radiometer in the measurement of radiant energy; of the nature of spectra and of the relations holding between the lines of a spectrum; and of the changes produced in spectra by various conditions. The course (a continuation of Course 7) is intended for those who expect to specialize in Physics or Astronomy. Baly's Spectroscopy will be used as a text.

9. *Electricity and Magnetism.* C

Professor GILBERT. First Semester, 3 hrs.

A course of lectures and recitations on the theory of electricity and magnetism, following for the most part J. J. Thomson's text. Applications of the theory will be made by the students in the study of electrometers, the inductive capacity of dielectrics, stream and equipotential lines, and galvanometers. Prerequisites, Differential and Integral Calculus and Physics 1 to 4.

10. *Electricity and Magnetism, Alternating Currents.* C

Professor GILBERT. Second Semester, 3 hrs.

A course of lectures and recitations on the theory of alternating currents with applications to wattmeters, measurement of hysteresis, transformers, alternators, synchronous and induction motors, transmission of power, etc. Text-book, *Alternating Currents*, by Franklin and Williamson. Prerequisite, Physics 9.

11. *Advanced Laboratory Work.* C

Professor GILBERT. First Semester, 2 hrs.

A course in electrical measurements. Prerequisites, Physics 9, but Physics 9 and 11 may be taken together. Laboratory fee, $3.

12. *Advanced Laboratory Work.* C

Professor GILBERT. Second Semester, 2 hrs.

A course in the measurement of alternating currents, use of wattmeter, efficiency of transformer, etc. Prerequisite, Physics 10, but Physics 10 and 12 may be taken together. Laboratory fee, $3.

13. *Advanced Laboratory Work.* C.

Professor HULL. First Semester, 2 hrs.

Laboratory exercises connected with the dispersive power of glass; the measurement of the wave lengths of light by the grating and interferometer; the use of the interferometer in the measurement of small distances and in the analysis of radiations; the use of the echelon prism; the study of various interference, diffraction, and polarization phenomena. Laboratory fee, $3.

15 and 16. *Physical Seminar.*

Professors HULL and GILBERT. First and Second Semesters, 2 hrs.

A seminar for the discussion of the current periodical literature and special research problems in Physics.

17 and 18. *Research Problems.*

Professors HULL and GILBERT. First and Second Semesters, 3 hrs.

A course in investigation and research problems in Physics.

Of the foregoing, Courses 1 to 5 may be elected by undergraduate students only, 6 to 13 are open both to undergraduates and graduates, 15 to 18 are open only to graduate students.

The requirement for a Minor in Physics includes Courses 1, 2, 3, and 4. The requirement for a Major includes Courses 1, 2, 3, and 4, and any three of the advanced Courses 5 to 13 inclusive.

ASTRONOMY

1. *Descriptive Astronomy.* A

Professor POOR. First Semester, 3 hrs.

A recitation course in general descriptive Astronomy, supplemented by occasional lectures and visits to the Observatory. The previous study of elective courses in Mathematics is not necessary. Prerequisite, Physics 1 and 2. (Young's *Elements of Astronomy.*)

2. *Spherical Astronomy.* B

Professor POOR. Second Semester, 3 hrs.

A recitation course in the relation of Spherical Trigonometry to Practical Astronomy with practice in computation. Students will make observations with the Sextant, Meridian Circle, Equatorial and Transit Instrument, and perform the necessary reductions. Prerequisite, Astronomy 1. (Campbell's *Practical Astronomy.*)

3. *Practical Astronomy.* C

Professor POOR. First Semester, 3 hrs.

A continuation of Course 2. The method of Least Squares will be briefly studied. Prerequisites, Astronomy 2 and Differential and Integral Calculus. (Chauvenet's *Practical Astronomy.*)

4. *Practical Astronomy (or Astrophysics).* C

Professor POOR. Second Semester, 3 hrs.

A continuation of Course 3, or, if the class so desire, such work in Astrophysics as can be carried on at the Observatory, supplemented by reading from astrophysical papers and the reduction of astrophysical observations. Prerequisite for Practical Astronomy, Astronomy 3; for Astrophysics, Astronomy 2 and Differential and Integral Calculus.

6. *Elementary Celestial Mechanics.* B

Professor POOR. Second Semester, 3 hrs.

An elementary course dealing especially with problems in the mechanics of solar and stellar systems. Prerequisites, Astronomy 1, Differential and Integral Calculus. (Moulton's *Celestial Mechanics.*)

7. *Celestial Mechanics.* C

Professor POOR. First Semester, 3 hrs.

Prerequisite, Analytic Mechanics, or Differential Equations, or Astronomy 6. (Moulton's *Celestial Mechanics.*)

8. *Celestial Mechanics.* C

Professor POOR. Second Semester, 3 hrs.

A course of reading from standard works on Celestial Mechanics Prerequisite, Astronomy 7.

CHEMISTRY

2. *Chemistry of the Non-Metallic Elements.* A

Professor BARTLETT and Mr. RICHARDSON.

Second Semester, 3 hrs.

Lectures, recitations, and laboratory work. In this course special emphasis is laid upon the general principles of Chemistry, the Notation in its experimental and arithmetical meaning, upon Nomenclature and Terminology in their applications. Some familiarity with the prop-

erties of chemical substances and with processes is acquired. A beginner's course, open to students who have had no chemistry in their preparation for College. Laboratory fee, $2.

3. *Metallic Elements and their Compounds.* A

Dr. BOLSER and Mr. RICHARDSON. First Semester, 3 hrs.

This course reviews rapidly the ground work preparatory to the study of the more difficult compounds of the non-metallic elements and continues the study of these elements and the metals by lectures, recitations (Newth's *Inorganic Chemistry*), and by Qualitative Analysis in the laboratory. For completeness students who elect this course should elect Course 4 also. It divides the time about equally between one-hour recitations and two-hour laboratory exercises. Open to all students who have had Course 2, or its equivalent.

Entrance Physics, or Physics 1, is a desirable foundation for this course. Laboratory fee, $3.

4. *Continuation of Course* 3. A or B

Dr. BOLSER and Mr. RICHARDSON. Second Semester, 3 hrs.

The study of the Metals and their compounds is completed, and more complex problems of Qualitative Analysis are introduced. Practice in Arithmetical calculations. Laboratory fee, $3.

5. *The Carbon Compounds.* B or C

Dr. BOLSER. First Semester, 3 hrs.

A course for beginners in organic chemistry. Two-thirds of the exercises are recitations or lectures and one-third are laboratory exercises. The object of the course is to ground the student in fundamental theory and to acquaint him with laboratory method. Open to students who have completed Courses 3 and 4. Laboratory fee, $4.

6. *The Carbon Compounds.* C

DR. BOLSER. Second Semester, 3 hrs.

This course is intended to supplement Course 5, and will deal primarily with the aromatic series. In the laboratory a few classical syntheses of important compounds will be studied. Parallel with the laboratory work, recitations and lectures will be held, having as

subject-matter the structural composition of representative members of various series of organic compounds, and the theoretical questions to which the study of these compounds give rise. Open only to students who have completed Course 5. Laboratory fee, $4.

7. *Quantitative Analysis.* B or C

Professor BARTLETT. First Semester, 4 hrs.

A course in the laboratory arranged from standard text and reference books. Elementary gravimetric and volumetric methods. Open to students who have completed Course 4 with a rank of at least 75. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, $4.

In general it is not considered advantageous for students to take Courses 5 and 7 during the same year, and it will not be allowed except in the case of Seniors, or others who receive special permission from the instructors.

8a. *Quantitative Analysis (continued).* C

Professor BARTLETT. Second Semester, 4 hrs.

A continuation and advancement of Course 7 with more complex analyses and their applications. Open only to students who have completed Course 7 with a rank of at least 75. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, $4.

8b. *Quantitative Analysis.* B or C

Professor BARTLETT. Second Semester, 4 hrs.

A course corresponding to Course 7 and open only to students who have completed Course 5 with a rank of at least 75. This course requires as a minimum the equivalent of seventy-two exercises of two hours each. Laboratory fee, $4.

12. *Historic and Economic Chemistry.* C

(*a*) Mr. RICHARDSON, (*b*) Professor BARTLETT.

Second Semester, 2 hrs.

(*a*) Lectures and readings on the history of the development of chemistry.

(*b*) Lectures on the sources, manufacture, and uses of chemical materials.

Open only to students who have completed Course 4.

13 and 14. *Inorganic Preparations.* C

Mr. RICHARDSON. First and Second Semesters, 3 hrs.

The preparation of inorganic compounds supplemented by informal lectures upon general chemistry. Requirement, Chemistry 3 and 4 and one additional year of Chemistry (5 and 6, 7 and 8, or 5 and 8 b). Laboratory fee, $5.

15 and 16. *Organic Compounds.* C

Dr. BOLSER. First and Second Semesters, 3 hrs.

A course in the preparation of some of the more complex organic compounds and in organic analysis. Laboratory fee, $4.

17 and 18. *Advanced Quantitative Analysis.* C

Professor BARTLETT. First and Second Semesters, 4 hrs.

Open to graduates and undergraduates who have completed Course 8 a, and who have consulted the instructor and received his approval. Laboratory fee, $4.

Required for the Thayer School, Courses 2, 3, 4; preliminary to the study of Medicine, Courses 2, 3, 4, 5, 8 b; Courses 15, 16, 17, 18 are for graduate students.

For students who have not presented Chemistry for entrance, a Minor consists of 2, 3, 4, and either 5 or 7. A Major consists of 2, 3, 4, and one of the following combinations: 5, 6, 7; or 5, 7, 8 a; or 5, 6, 8 b.

For students who have presented Chemistry for entrance, a Minor consists of 3, 4, and any one of the following combinations: 5, 6; or 7, 8 a; or 5, 7; or 5, 8 b. A Major consists of 3, 4, 5, 6, 7, 8 a. Course 12 may in some cases be combined with a four-hour course in meeting the requirements for a Major.

BIOLOGY

ZOÖLOGY AND BOTANY

The courses in Zoölogy and Botany are designed for three classes of students, namely: (*a*) for those who wish to know something of the elementary principles and aims of the science; (*b*) for those who intend to study medicine; and (*c*) for those who expect to teach the natural sciences, or who for any reason are interested in the subject and wish to give it special attention.

Courses 1, 1 a, 2, 3, 4, 5, and 6, are elementary in character, and are intended for those who desire a comprehensive view of the subject. Those who intend to study medicine will find the following courses of especial value as a preparation for the study of human anatomy, physiology, and bacteriology: namely, Biology, 1, 1 a, 2, 3, 4, 5, 7, 9, and 10. Courses 1, 1 a, 2, and 10 will be useful to students of psychology. Those who are preparing to teach Zoölogy in High Schools should take at least Biology 1, 2, 3, and 4.

While the above-named courses have been modelled to meet the requirements of the general student and of those who have a medical career in view, the symmetry and continuity of the entire series of courses have been maintained in order to meet the requirements of those who expect to teach the natural sciences or to become professional biologists.

Biology 1 and 2 are continuous and dependent courses in Elementary Biology. They are designed for those students who desire some knowledge of the fundamental facts and principles of animal and plant life, and of the modern methods of solving biological problems.

Biology 1 should not be elected unless the student intends to take Biology 2. Biology 2 is open only to those who have completed the required work in Biology 1. Biology 1 and 2 are prerequisites for all other courses in Zoölogy and Botany.

1. *Elementary Biology* (*Botany*). A

Professor LYMAN and Mr. CHIVERS. First Semester, 3 hrs.

An introductory course giving a general survey of the vegetable kingdom. The lectures treat of the physiology, morphology, and reproduction of plants, and of the relation of fungi and bacteria to fermentation, putrefaction, and disease. The laboratory work consists largely of the microscopic examination of some of the principal representatives of the vegetable kingdom. Laboratory fee, $3.

1 a. *The Principles of Biology.* A

Professor PATTEN. First Semester, 2 hrs.

A course of lectures on the structure and activities of plants and animals, with a discussion of the principal phenomena of nutrition, growth, reproduction, heredity, variations, distribution, natural selection and evolution. The course is designed especially for those who desire a brief statement of the principles and aims of the science, and as a preparation for Biology 1 and 2. It must be taken with, or before, Biology 1. It will count but one hour for those who have already taken more than two courses in Biology.

2. *Elementary Biology (Zoölogy).* A

Professor GEROULD and Mr. CHIVERS. Second Semester, 3 hrs.

An introduction to the study of animal life. The structure and life histories of a series of typical animals are studied in the laboratory. The lectures treat of the differences between animals and plants, the evolution and inter-relation of animal forms, the phenomena which lie at the basis of nutrition, growth, and heredity, and the inter-action which exists between animals and their environment. (T. J. Parker's *Practical Zoölogy*, Linville and Kelly's *General Zoölogy*.) Laboratory fee, $3.

3. *Invertebrate Zoölogy.* B.

Professor GEROULD. First Semester, 3 hrs.

This is a course in the comparative anatomy, embryology, and physiology of the invertebrates. Attention is given to the inter-relation of the various phyla, to the maturation, fertilization, and cleavage of the ovum, the formation of germ layers, larval development, and to the relation of each species to its environment. Several examples from each of the more prominent phyla are studied in the laboratory, including the more important parasites of interest to the student of medicine. (Shipley and McBride's *Elementary Zoölogy*, Hertwig's *Manual of Zoölogy*. Laboratory fee, $3.

4. *Comparative Anatomy of Vertebrates.* B

Professor PATTEN. Second Semester, 3 hrs.

The outlines of the classification of vertebrates, the homologies, and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes and related forms up to man and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. The course is intended for those especially in-

terested in zoölogy, or for those who wish to lay a broad foundation for the study of human anatomy, physiology, or comparative psychology. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*.) Laboratory fee, $3.

5. *Cryptogamic Botany.* B

Professor LYMAN and Mr. CHIVERS. First Semester, 3 hrs.

A course on the lower plants, treating of the classification, structure, activities, and life histories of typical representatives of the various orders, attention being paid to those forms that are of pathogenic or economic interest, and to the making of artificial cultures and culture media. Laboratory fee, $3.

6. *Phanerogamic Botany.* B

Professor LYMAN. Second Semester, 3 hrs.

A course on the higher plants, continuing the work of Course 5, and completing the survey of the plant kingdom. It treats of the morphology and development of the flowering plants, embracing the main topics of their structure, functions, and habits, together with their classification, distribution, and adaptations. Laboratory fee, $3.

7. *Cytology.* B or C

Professor GEROULD. First Semester, 3 hrs.

This course treats of the structure and activities of animal and of plant cells. The structure of protoplasm, its physical and chemical properties, the theories of heredity, cell-division, and the effects of nutrition, stimulation, and exhaustion of cells are discussed. (Verworns' *General Physiology*.) Open only to students who have taken Biology 3. Laboratory fee, $3.

9. *Vertebrate Embryology.* C

Professor PATTEN. First Semester, 3 hrs.

A study of the embryology of the frog, the chick, and a mammal. Open only to those who have done satisfactory work in Biology 1, 2, and 4. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, McMurrick's *Development of the Human Body*.) Laboratory fee, $3.

10. *Comparative Anatomy and Physiology of the Nervous System and Sense Organs.* B or C

Professor GEROULD. Second Semester, 3 hrs.

A course of lectures and laboratory work illustrating the structure and evolution of the nervous system and sense organs, with special

reference to their physiology. A desirable course for students of medicine or psychology. Open to students who have taken Courses 1 and 2. (M'Kendrick and Snodgrass' *Physiology of the Senses*, Burkholder's *Anatomy of the Brain.*) Laboratory fee, $3.

12. *Vegetable Histology and Physiology.* C
Professor LYMAN. Second Semester, 3 hrs.

A study of the minute structure of the higher plants, and of the development of tissues and organs is combined with experiments on the properties of protoplasm and its relation to external stimuli, nutrition, growth, etc. Attention is paid to methods of histological technique, — killing, staining, sectioning, etc. This course must be preceded by Course 6 or its equivalent, and some knowledge of Physics and Chemistry is desirable. Laboratory fee, $3.

13 and 14. *Morphology of Plants.* C
Professor LYMAN. First and Second Semesters, 3 hrs.

A field and laboratory course treating of the collection and preservation of material, the analysis of plants, and the morphology and systematic arrangement of the various groups. Stress may be laid on either the higher or the lower orders. Students proposing to elect this course must consult the instructor before the close of the preceding college year. Open to those who have taken courses 5 or 6. Laboratory fee, $3.

16. *Zoölogical Seminar.* C
Professor PATTEN. Second Semester, 2 hrs.

A discussion of special problems in Biology and a review of the current literature. Designed primarily for those students who intend to do graduate work in Biology. A reading knowledge of French and German is essential.

17 and 18. *Research work.*
Professor PATTEN. First and Second Semesters.

Research courses in animal morphology leading to advanced degrees.

The requirement for a Minor in Biology is Courses 1 and 2, and any two of Courses 3, 4, 5, 6, 7, and 10.

The requirement for a Major is any two of Courses 7, 9, 10, 12, 13, 14, 16, in addition to the requirement for a Minor.

HUMAN ANATOMY AND PHYSIOLOGY

(MEDICAL SCHOOL COURSES)

HISTOLOGY

1. *Human Histology.* B

Professor KINGSFORD and Dr. GRAHAM. First Semester, 3 hrs.

Laboratory work with recitations during the last few weeks of the course. The elementary tissues are first studied, then the various organs, including special study of the brain and cord. Each student may prepare and retain sections. This course extends through the first two-thirds of the year.

BACTERIOLOGY

2. *Bacteriology.* B

Professor KINGSFORD and Dr. GRAHAM. Second Semester, 3 hrs.

Laboratory demonstrations, supplemented by recitations. The aim in this course is to make it as practical as possible. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria, the technic of the Widal serum diagnosis in typhoid fever, and to staining pus. Each student is required to isolate a number of different organisms. Special instruction is given to any student desirous of doing research work, either in bacteriology or pathology. Six hours in the laboratory each week. This course follows Histology, and extends through the last third of the year.

HUMAN ANATOMY

1 and 2. *Human Anatomy.* C

Professor FROST and Dr. P. BARTLETT.

First and Second Semesters, 3 hrs.

Osteology, arthrology, and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. Opportunity is offered

to follow the dissections of the human body made by the medical students of the second and third years. The written examinations covering the work in osteology and arthrology, if satisfactory, are final. (Gray's *Anatomy*, last edition.)

PHYSIOLOGY

1. *Elementary.* B

Professor STEWART. First Semester, 3 hrs.

A course of recitations, with occasional lectures, upon the essential facts of Physiology, as a preparation for the later study of the subject.

2. *Laboratory Course.* C

Professor STEWART. Second Semester, 3 hrs.

A course of lectures, demonstrations, and laboratory work upon the physiology of digestion, absorption, secretion, excretion, metabolism, muscle, and nerve. Each student will perform the more important experiments for himself.

PHYSICAL CULTURE

1 and 2. *Physical Culture.*

Professor BOWLER. First and Second Semesters, 1 hr.

A course of lectures on physical culture, combined with practical work in the gymnasium, for the Freshman class. The lectures will cover the gross human anatomy, physiology of muscular exercises, personal hygiene, dietetics, etc.; in general, sanitary and moral prophylaxis. The lectures will be given the first part of the first semester and the last part of the second; the work in the Gymnasium occurs in the middle of the College year; the examination for the entire work of the year takes place at the close of the second semester.

MINERALOGY AND GEOLOGY

1. *Mineralogy.* A

Professor HITCHCOCK. First Semester, 3 hrs.

This course embraces the essential principles of Descriptive and Chemical Mineralogy, Crystallography, and Petrography, and is designed to serve as the introduction to more extended studies in the same lines. It will also meet the wants of those who pass into Geology.

Open only to those Juniors and Seniors who have passed Chemistry 2 or its equivalent.

2. *Dynamical and Structural Geology.* A

Professor HITCHCOCK. Second Semester, 3 hrs.

Le Conte's *Elements of Geology* is used as a text-book. Recitations are supplemented by lectures and by readings specially assigned.

Open only to those who have taken Course 1.

3. *Organic Geology.* C

Professor HITCHCOCK. First Semester, 3 hrs.

This commences with a study of the sea-shore, marine deposits, and the organisms specially concerned in the formation of pelagic ooze, limestones, coral reefs and islands. The topic of Historic Geology follows, discussing as fully as possible the evolution of the continent, the life and the origin of the present distribution of animals and plants. Lectures and recitations, with references to standard treatises.

Open only to those who have completed Course 2.

4. *Economic Geology.* B

Professor HITCHCOCK. Second Semester, 3 hrs.

A study of the Mineral Resources of the United States. Descriptive and statistical lectures upon the occurrence, distribution, and pro-

duction of the valuable minerals. Reference will be made continually to the Reports of the Census Bureau, the Mint, the Geological Survey. and the Mineral Industry, prepared by the Engineering and Mining Journal.

Open only to those who have completed Course 2.
Not offered in 1906–1907.
Graduate students and candidates for the degree of Ph.D. will engage in field work in areas specially assigned, and apply the principles of Petrography to specimens of their own collection. They will study the Reports of the several States, the larger manuals of Geikie and Dana, and special treatises, according to the particular subject assigned.

HISTORY

The courses in History are intended for two classes of students. (1) To those desiring an outline of historical development from ancient to modern times are offered Courses 1, 2, 3, 4, 6, 9. Courses 1 and 2, required for all later courses, give such training as is essential for the use of ordinary historical material. Courses 3, 4, 6, 9, call for wider and more critical reading, and the writing of reports or essays to combine results and put into more definite practice the training previously given. (2) For students having some especial interest in the particular period covered, or desiring training to teach History, Courses 5, 7, 10, and 12 are designed. These courses are devoted to a more critical study of selected topics in the period already covered in outline, and to the presentation of results in the form of reports or theses.

1 and 2. *Mediæval and Modern European History.* A

Professors FOSTER and FAY, and Dr. SHEARER.

First and Second Semesters, 3 hrs.

Courses numbered 1 and 2 are treated as a continuous year's course in European History from 375 to 1789 A. D. A detailed outline of the lectures, the map and written work, and the recitations on lectures, text-books, and collateral reading will be found in the *Syllabus of European History from the German Invasions to the French Revolution* (*Revised Edition*). In addition to the recitations, the work will be tested by conferences with the instructors and by short written quizzes at the lecture or recitation. A minimum amount of collateral reading is required of all, but it is hoped that

the student's interest will lead him into independent reading beyond any requirements. Lecture course.

Students taking Course 1 must take Course 2 the next semester. Courses 1 and 2 are required for all subsequent courses in History, and for all courses in Modern History, Economics, Political Science, and for English 15.

3. *History of England to the Sixteenth Century.* B or C

Dr. SHEARER. First Semester, 3 hrs.

This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. The course is open only to those who have attained an average rank of at least 60 in History 1 and 2. Lectures, readings, recitations, and reports. Required for admission to Course 4.

4. *History of England and the British Empire from the Sixteenth Century.* B or C

Dr. SHEARER. Second Semester, 3 hrs.

This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, readings, recitations, and reports.

5. *The Reformation Era.* B or C

Professor FOSTER. First Semester, 3 hrs.

This course traces certain phases of the transformation of Mediæval into Modern Europe (1300–1600), from the age of Dante to that of Shakespeare and Calvin, and includes such topics as the following: church and papacy at the close of the middle ages; early criticisms and attempts at reform; the revival of learning; the Protestant Revolt; the reform within the Catholic church; the results of the era. This course is more advanced than the earlier narrative courses (1–4), is intended for those especially interested in the period or desiring especial training in the study or teaching of history, and is open only to students who have attained an average rank of at least 60 in History 1 and 2. Lectures, discussions of general and assigned topics, and the reading of special reports.

Courses 5 and 7 are usually given in alternate years.

6. *American Colonial History to 1783.* B or C

Professor FOSTER. Second Semester, 3 hrs.

This course is intended to trace the beginnings of the American nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union. Students who have not had a good course in English History in the secondary school are advised but not required to precede this course by Courses 3 and 4. Lectures, readings, recitations, and reports.

7. *The Puritan State.* C

Professor FOSTER. First Semester, 3 hrs.

This is a study, based partly on contemporary documents, of the Puritan experiment in government (1) in Geneva, under Calvin's influence, 1536–1564; (2) in England and Scotland in the sixteenth and seventeenth centuries; and (3) in Massachusetts Bay, 1630–1691. It is an advanced course intended for graduate students or those who wish to do special work in History, who can read French or German, and who have taken History 1–6, or a satisfactory equivalent. Lectures, thesis, and discussions.

9. *The Historical Development of Modern Europe (1789–1900).* B or C

Professor FAY. First Semester, 3 hrs.

The first part of this course aims to explain the political, social, and intellectual conditions which caused the French Revolution, and to give a brief narrative of the French Revolution itself and of the rise and fall of Napoleon. The second part traces the formation of the present States of continental Europe, and closes with some account of the actual government of each. The course is thus a continuation of History 2 and an introduction to an understanding of the political conditions and questions of the Europe of to-day. The course is open to those who have passed History 1 and 2 with an average rank of at least 60 per cent. Lectures, quizzes on reading, recitations on text-book, and a thesis.

10. *The History of Prussia.* C

Professor FAY. Second Semester, 3 hrs.

This course will trace by lectures Prussia's position in Germany and the main features of her growth from a Mediæval Electorate to her present position as leading State in the German Empire. A considerable part of the time will be devoted to a detailed study of special problems connected with Prussian history, which will give an opportunity for historical criticism and investigation on the part of the students. Oral reports will be presented by members of the class and discussed in class. This course is open to those who have passed History 1 and 2 with an average rank of at least 60 per cent. A reading knowledge of either French or German is desirable.

12. *Italian Renaissance.* B or C

Second Semester, 3 hrs.

This is a co-operative lecture course given by instructors in the fields of History, Economics, Archæology, Fine Arts, Ancient and Modern Languages, and the Natural Sciences. It is designed to show the origin and nature of the Renaissance movement in Italy; the wide range and close interrelation of its varied manifestations; and its far-reaching results in the different fields of knowledge and human activity. Lectures, collateral reading, frequent written quizzes or reports, and a thesis. This course is open only to students who have passed History 1 and 2 with a grade of at least 60. A reading knowledge of at least one language besides English is very desirable.

This course is given in alternate years and is not offered in 1906–1907.

A Minor in History is obtained by taking in addition to History 1 and 2 two other courses in History. Either History 6 or History 9 may be combined with Modern History 1 for a Minor. A Major in History is obtained by taking in addition to History 1 and 2 four other courses.

MODERN HISTORY

History 1 and 2 are prerequisites for all courses in Modern History.

1. *Political History of the United States (1783–1877).* B or C

Professor J. H. SMITH. First Semester, 3 hrs.

The Political History of the United States from the close of the Revolutionary War to the close of the Reconstruction period (1783 to 1877). The core of the work is the mastery of a brief text-book, regarded as a full syllabus, and supplemented with formal lectures, comments, required and recommended readings, essays, discussions, and conferences. Due attention is given to physical and political geography. While no attempt is made to teach a philosophy of history, the connection between effects and causes is dwelt upon. As much attention as the time permits is paid to collateral reading and original sources. A special attempt is made to introduce students to the leading men of our political history.

Open only to Seniors.

2. *The Political History of Europe from the French Revolution to the Treaty of Berlin (1789–1878).* B or C

Professor J. H. SMITH. Second Semester, 3 hrs.

The course opens with lectures on the characteristics of the chief European peoples, which help explain their political history, on the state of things in the principal countries just before the outbreak of the French Revolution, and on the beginnings of that movement. From this point the course is conducted in the same general manner as the one just described. The chief stress is laid upon the broad movements of the period, and the vital process by which the Europe of a century and a quarter ago has become the Europe of recent times.

Not offered in 1906–1907.

A Minor in Modern History is obtained by combining History 1 and 2 with Courses 1 and 2 in Modern History. A Major is obtained by combining any four courses in History with Courses 1 and 2 in Modern History together with additional work assigned by the instructor.

ECONOMICS

History 1 and 2 are required for all courses in Economics.
Courses 1 and 2 are required for all other courses in Economics, except that 3 may be taken with 1 and 4 with 2.
Courses 9 and 18 are open only to First Year Tuck men.
Tuck men may complete a Major in Economics by substituting B courses for all C courses.

1 and 2. *Elementary Economics.* A

Professor WICKER and Mr. BURTCH.

First and Second Semesters, 3 hrs.

In these two courses the attempt is made to give the student the currently accepted scientific analysis of modern industrial society. They seek to accomplish a threefold purpose: to teach fundamental principles in such a way that they may be applied to the duties of enlightened citizenship; to open up the general field of Economics in the way most helpful for further more detailed and extensive study in the same field; and to offer to those intending to adopt business as a profession such general rules and principles as are contributed to business by the science of Economics.

While the courses concern themselves primarily with economic theory, — with the most general principles of consumption, production, exchange, and distribution, — the theory itself is developed from and illustrated by a study of actual economic processes and conditions. Thus due attention is paid to the problems of money and banking, the tariff, monopoly, labor, etc., in such a general way that later intensive study of these problems may be based upon the foundations thus laid. Text-book, lectures, and collateral readings. (First semester, Ely and Wicker's *Elementary Principles of Economics;* second semester, advanced text or texts.)

3. *Elements of Commercial Geography.* B

Professor PERSON. First Semester, 3 hrs.

This course aims to bring out the general principles of the relation between man's environment and his industrial life, and then to apply these principles by taking up a study of the various countries

as producers and sellers of goods and as markets. While all important regions are considered in an elementary way, a more detailed study is given to the older industrial countries. Among the facts considered are the following: physical conditions, geology, soils, rivers, climate; the nature and distribution of extractive and of manufacturing industries; imports and exports; industrial aptitudes; business methods; and national peculiarities that determine the particular classes of goods demanded. Lectures and text-book. (Adams' *Commercial Geography.*)

4. *Economic History of the United States.* B

Professor DIXON and Mr. BURTCH. Second Semester, 3 hrs.

Sketch of the development of English industry and commerce to the 18th century, followed by a more careful study of the Industrial Revolution. With this as a background, the development of the United States, both industrial and commercial, is treated in the form of lectures, the relation of economic to social and political factors being constantly noted. The following are some of the topics considered: the land policy of the government, the movement of population, and the development of agricultural resources both North and South, including the economic effects of slavery; the origin and development of the extractive and manufacturing industries; transportation development, including turnpikes, canals, and railroads; and a sketch of commercial development, including a brief history of protectionism. Lectures, text-book, and collateral readings. (Coman's *Industrial History of the United States.*)

5. *Money and Banking.* B

Professor PERSONS. First Semester, 3 hrs.

A discussion of the most important features of the institutions of money, banking, and credit, with special reference to their function in the economic life of to-day. The history of money and banking in the United States. Description of the monetary and banking systems of important foreign countries. Discussion of practical problems, such as: changes in the value of money and their effects on prices and incomes, bimetallism, inconvertible paper currency, the relation of the sub-treasury system to the supply of money, proposed modifications in the national banking laws. Lectures on monetary and banking history. (*Report of the Monetary Commission*, Johnson's

Money and Currency, and Dunbar's *Theory and History of Banking*.)

6. *Public Finance.* B

Professor PERSONS. Second Semester, 3 hrs.

This course deals with public revenues and expenditures and the administration of public funds. An introductory sketch of the development of public finance as a science is followed by a discussion of public expenditures, their growth, classification, and relation to governmental functions. The administrative and legislative work of preparing a budget is described. In the treatment of public revenues special attention is given to problems of state and local taxation. Some of the topics discussed are: theories of just taxation, progressive taxation, the shifting and incidence of taxation, the internal revenue system, the tariff on imports, the general property tax, income and inheritance taxes, special taxes on corporations, the work of state tax-commissions. Public debts are treated with reference to their financial justification and their economic effects. (Adams's *Public Finance*.)

7. *Industrial Organization.* B

Professor DIXON. First Semester, 3 hrs.

Historical development and analysis of the different forms of industrial organization, including the partnership, joint-stock company, and the corporation, and the later developments, such as the pool, trust, combination, and holding company. Critical discussion of the advantages and disadvantages of recent forms of business organization, illustrated by documents. Elements of the law of corporations, with special reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization and manipulation. Public policy toward corporations, with special reference to taxation. Commerce clause of the Federal Constitution and its growing importance. Lectures, text-books, and assigned readings. (Meade's *Trust Finance* and Ripley's *Trusts, Pools, and Corporations*.)

8. *Transportation.* B

Professor DIXON. Second Semester, 3 hrs.

Steam railroads. (*a*) The railroad problem of the United States, including theories of rates, combination and pooling, consolidation,

community of ownership, and government ownership or control, involving a careful consideration of the work of the Interstate Commerce Commission and of State commissions. (*b*) A comparative study of the railroad systems of other countries, especially England, Germany, France, Canada, and the Australian Commonwealth, with a consideration of the economic significance of the world's great railroad systems.

Transportation and communication other than by steam railroads. (*a*) Lake, river, and canal transportation in the United States and other countries. (*b*) Ocean transportation with special reference to its relation to the transportation systems of various countries. (*c*) Interurban railways and their growing competitive power, telegraphs, telephones, and cables. Lectures, text-book, and assigned readings and reports. (Johnson's *American Railway Transportation*, and Ripley's *Railway Problems*.)

9. *Resources and Industries of the United States.* B

Professor PERSONS. First Semester, 2 hrs.

(*a*) A detailed study of the fundamental conditions of the industrial development of the United States, such as geographical, geological, and climatic factors; the extent and distribution of resources; industrial traits; labor conditions; forms of industrial organization.

(*b*) A general survey of the development and present conditions of the more important extractive industries — agriculture, horticulture, forest industries, fishery industry, and mining.

Emphasis is given throughout this course to facts of practical value, and practical use is made of the material in the Commercial Museum. (Leroy-Beaulieu's *United States in the Twentieth Century*.)

Open only to Tuck School students.

10. *Labor.* C

Professor WICKER. Second Semester, 3 hrs.

A preliminary review of the economic theory of labor and wages, followed by a concrete, practical study of the present status of labor in the chief industrial nations. Among the more important topics to be treated are forms of remuneration, labor unions, strikes and boycotts, arbitration and conciliation, labor law in the United States and England. Lectures and recitations. (Adams and Sumner's *Labor Problems*.)

11. *Commercial History and Policy.* C

Professor DIXON. First Semester, 3 hrs.

Historical study of the tariff policy of the United States, with comparative study of the policy of related countries; commercial treaties, including the policy of reciprocity; navigation laws, bounties, subsidies, preferential tariffs, and the problem of our merchant marine; the commercial relation of the United States to its recently acquired possessions. Text-book, assigned readings, and reports. (Taussig's *Tariff History of the United States* and *State Papers and Speeches on the Tariff.*)

12. *Studies in Statistics.* B

Professor PERSONS. Second Semester, 3 hrs.

Statistical methods are studied through their application to the investigation of various economic problems. Some attention is given to the sources and reliability of statistical data and to methods of determining the probable accuracy of the results of statistical analysis. Students are trained in the use of the graphic method as an aid in the solution of problems and in the presentation of results.

13. *The Development of Economic Thought.* C

Professor WICKER. First Semester, 3 hrs.

A survey of the history of economic theory as related to the history of economic development. It is the aim of the course to enforce and amplify the student's grasp of economic principles by a study of the development of thought in the economic field. Lectures, recitations, and reports.

14. *Present Day Economic Theory.* C

Professor WICKER. Second Semester, 3 hrs.

An advanced course in which mooted points of theory are critically studied in the works of such economists as Marshall, Böhm-Bawerk, John B. Clark, Patten, and others. This course is designed as a natural complement to the historical study in the first Semester, as outlined in Course 13. Reports and group conferences.

15 and 16. *Economic Reading.* C

Professors DIXON, WICKER, PERSON, and PERSONS.

First and Second Semesters, 1 hr.

Readings in the French and German economists with discussions. Open only by special permission to students having a good reading knowledge of French and German.

18. *Resources and Industries of the United States (continued).* B

Professor PERSON. Second Semester, 2 hrs.

This course is a continuation of Course 9.

A minute investigation of the development and present condition of typical manufacturing industries, each being considered as to the securing of raw materials, technical processes and costs of manufacture, form of organization, methods of management, the times, places, and methods of the sale of finished products, and as to its general conditions and prospects.

Emphasis is given throughout this course to facts of practical value, and practical use is made of the material in the Commercial Museum.

Open only to Tuck School students.

For additional courses in Economics see Tuck School Announcement.

POLITICAL SCIENCE

History 1 and 2 are prerequisites for all courses in Political Science.

1. *American Political Institutions.* A

Professors WELLS and PERSON. First Semester, 3 hrs.

A concise survey of the origin, development, and practical working of American political institutions. This course will include an historical review of the formation of the Federal Constitution and a study of that Constitution as a body of living principles; the working relations of the Federal and State governments; the nature of the American State and the working of its government, and a brief examination of different forms of local and municipal governments. The general aim will be not only to prepare students by adequate information for the proper discharge of the duties of citizenship, but also to stimulate in them a thoughtful patriotism and quicken their sense of civic responsibility. Recitations and lectures. (Leacock's *Elements of Political Science* and Bryce's *American Commonwealth.*) This course is a prerequisite for all other courses in Political Science.

2. *Comparative Constitutional Law.* B or C

Professor COLBY. Second Semester, 3 hrs.

A comparative study of the constitutional law and development of the United States and the principal European States, with illustrative references to Mexico, Brazil, and the lesser States of Europe. The course comprehends a study of the historical and contemporaneous

relations of sovereignty and government; of the sphere of civil liberty; and of the principles and actual working of constitutional law and government in these States. Lectures and collateral reading.

Not offered in 1906–1907.

3. *American Constitutional Law.* B or C

Professor COLBY. First Semester, 2 hrs.

This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of the written constitution in America, to the formation of the early State constitutions, and to the various sources of the Federal Constitution and to its text. Recitations and lectures. (Cooley's *Principles of Constitutional Law.*) Four hours a week for the first nine weeks.

4. *American Constitutional Law (continued).* C

Professor COLBY. Second Semester, 1½ hrs.

Advanced course, open only to students who have taken Course 3. This course is intended for students who expect to enter the profession of law, and involves a critical examination of such parts of the Constitution as are not studied in Course 3. Recitations and lectures, supplemented by examination of leading cases. (Cooley's *Principles of Constitutional Law*, and Boyd's *Cases on Constitutional Law.*) Three hours a week for the last nine weeks.

Not offered in 1906–1907.

5. *Elementary Law.* C

Professor COLBY and Mr. ATWOOD. First Semester, 3 hrs.

Outlines of Jurisprudence. This course is intended for students who expect to enter the profession of law, and is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (*a*) a brief historical survey of the Roman Law and of the English Common Law, (*b*) a critical examination of parts of Robinson's *Elements of American Jurisprudence*, and (*c*) a study of selected chapters of Blackstone's *Commentaries*. Recitations and lectures.

6. *Elementary Law (continued).* C

Professor COLBY and Mr. ATWOOD. Second Semester, 3 hrs.

A continuation of Course 5, including the remaining chapters of Blackstone's *Commentaries* and Wambaugh's *Study of Cases*. Recitations and lectures.

Courses 5 and 6 are directly preparatory for the Law School. They will afford any student pursuing them with serious purpose opportunity to so qualify himself by knowledge of legal ideas and terms, the main facts of legal history, and the method of legal reasoning, for the work of the Law School, that he may profit immediately from its courses of lectures and its study of cases. Any student electing Course 5 will be expected to elect Course 6.

7. *Municipal Administration.* B

———. First Semester, 2 hrs.

A study of municipal activities in the United States, England, Germany, France, and Italy. Among the subjects discussed are: the origin and evolution of the city; the city as agent of the State; the city as local corporate body; municipal organization; municipal politics and elections; municipal functions, such as education, charities, police, public works and finance; social and economic problems of cities. Lectures.

Not offered in 1906–1907.

8. *International Law.* B

Professor COLBY. Second Semester, 2 hrs.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized States, and their recent modifications by treaty. Recitations and lectures. (Lawrence's *International Law* and recent treaties of Arbitration.) Four hours a week for the last nine weeks.

9. *History of Political Theories.* C

Professor COLBY. First Semester, 2 hrs.

Lectures, readings, and reports. This course is open only to graduate students and undergraduates whose major study is in this department.

For further courses in Political Science, see Tuck School.

A Minor in Political Science is obtained by combining History 1, 2, and Political Science 1 with two courses in Political Science graded B.

A Major may be obtained by adding six hours graded C to the requirements for a Minor.

SOCIOLOGY

1. *Ethnology.* B

Professor WELLS. First Semester, 3 hrs.

This is an introductory course and should be taken by those who propose to take subsequent courses in Sociology. It considers man's place in nature, and the races and varieties of mankind. The method of treatment is both historical and descriptive. Each student is required to provide himself with a good atlas and to make constant use of the library for notes and reports. Lectures and recitations.

2. *Biological Sociology* (*Vital Phenomena*). B

Professor WELLS. Second Semester, 3 hrs.

This course treats of man's adjustment to his natural environment and of the way in which it determines his mode of life and his institutions, with particular reference to climatic conditions and problems of tropical colonization. It is the Biology of population, involving a study of birth rates, death rates, and kindred phenomena by the Statistical method. Lecture course.

3. *Anthropological Sociology* (*Social Phenomena*). C

Professor WELLS. First Semester, 3 hrs.

Its subject is the social life of to-day, particularly in America. It investigates the statistics of social conditions and social groups. This involves a study of Social Classes, Crime, Pauperism, and Social Reform. Lecture course.

Open only to those who have taken Course 2.

4. *Psychological Sociology* (*Social Forces*). C

Professor WELLS. Second Semester, 3 hrs.

This approaches social facts from the mental side, considering them as expressions of the human mind or products of human effort. It attempts to explain human society and human institutions from within, by the method of scientific interpretation. Lecture course.

Open only to those who have received the previous consent of the instructor.

A Minor in Sociology is obtained by taking all four courses.

A Major is obtained by combining Biology 2 and 4 with all four courses in Sociology; or by combining History 1 and Economics 1 and 2 together with all four courses in Sociology.

PHILOSOPHY

1. *Psychology.* A

Dr. JOHNSTON and Mr. HEYHOE. First Semester, 3 hrs.

An elementary course. Outlines of the science. Description and explanation of the phenomena of the mental life. Lectures, quizzes, reports, and readings.

2. *Logic.* A

Dr. JOHNSTON. Second Semester, 3 hrs.

An introductory course. A study of the outlines of deductive and inductive reasoning with especial reference to fallacies, argumentation, the nature of thought, and the logic of certainty and probability. Recitations, reports, and readings. (Creighton's *Introductory Logic.*)

Philosophy 1 and 2 are open to Sophomores after approval by the instructor, and to Juniors and Seniors. Course 2 does not presuppose Course 1. Students of Logic will find English 9 of service to them.

3. *Advanced Logic.* B

Professor HORNE. First Semester, 3 hrs.

The Science of Thought. This course considers not the conditions under which valid thinking is possible, but the nature of thinking itself. It is the purpose of the courses in Logic to consider the place of thought in reality. Recitations, readings, reports, and a thesis. Course 3 presupposes either Course 1 or 2. (Everett's *Science of Thought.*)

Not offered in 1906–1907.

4. *Advanced Psychology.* B

Professor HORNE. Second Semester, 3 hrs.

This course is a natural continuation of Philosophy 1, which it presupposes. Special attention will be paid to abnormal psychic phenomena. It is the purpose of the courses in Psychology to acquaint college men with the essential elements of their own conscious life and with the general constituents of human nature. Recitations, readings, reports, and a thesis.

Not offered in 1906–1907.

Students of Psychology will find the following courses in other departments of interest and value to them, viz., Biology 1, 1a, 2, 10, and Sociology 4.

5. *History of Philosophy.* A or B

Professor CAMPBELL. First Semester, 2 hrs.

Ancient Period. A study of the progressive steps in constructive thought from the earliest times to the birth of accredited Science and Philosophy at the close of the Socratic era. The History of Schools of thinking is treated in its concrete relation to national events, and involves an outline of the Philosophy of History. Lectures, recitations, and readings.

6. *Modern Philosophy.* B or A

Professor CAMPBELL. Second Semester, 2 hrs.

History of the national developments of philosophic thinking which have followed the Reformation, in Germany, Italy, France, Great Britain, and America; rise of great personal representatives of Modern Thought; also tendencies and Schools of Philosophy. This course may be taken without Course 5.

7. *Historical and Theoretical Ethics.* A or B

Professor CAMPBELL. First Semester, 2 hrs.

It is the purpose of Ethics to establish the common foundation of the Moral, Social, and Political Sciences. The Historical exhibits the progressive theories until the founding of Modern Ethics. The Theoretical is an exposition of the principles of man's moral nature, and of the laws of its development in terms of environing conditions. Lectures, discussions, and readings.

> The importance of a correct knowledge of the Moral Life will commend itself. It is the intention so to arrange the schedule of studies that every undergraduate may have opportunity to elect at least one two-hour course in Ethics. Course 8 may be taken before Course 7.

8. *Practical and Systematic Ethics.* B or A

Professor CAMPBELL. Second Semester, 2 hrs.

Man as an ethical unit in practical affairs. A study of his mental equipment. Conscience and Will as related to responsibility. Classification of duties as Personal, Social, Civil, and Theistic Specific facts of Personal Ethics. A study of Justice in the social medium. The law of veracity in business life. Morality in its relation to custom, fine art, and religion. Lectures, recitations, and readings.

9. *Civil Ethics.* C

Professor CAMPBELL. First Semester, 2 hrs.

A study of the moral relations of man as a civil unit. Recognition of Rights, Penalties, and Laws. Duties under free government. Problems of Suffrage and of Temperance Legislation. Rights of Labor and of Capital. Relation of ethical science to Civil Law and courts of equity and to civil processes generally. Lectures, recitations, readings, and thesis. This course presupposes Courses 7 and 8.

10. *Early Greek Philosophy.* C

Professor CAMPBELL. Second Semester, 2 hrs.

A study in the original Greek of the teachings (extant) of the Pre-Socratic philosophers. Translations and discussions. (Fairbanks's *First Philosophers of Greece.*)

> Open only to Seniors who are acquainted with the Greek language. A study of the later Greek philosophy is given under Greek 11.

11. *Æsthetics.* B

Professor CAMPBELL. First Semester, 2 hrs.

Philosophy of the Fine Arts. Historical development of Architecture, Sculpture, Painting, Music, and Poetry. Recitations and lectures with photographic and stereopticon illustrations. Students choose special topics for theses to be presented to the class. (Raymond, *Genesis of Art-Form.*)

> For courses in Greek and Roman Architecture, Sculpture, and Painting, see Archæology 1–6 and Fine Arts 1–3. For a course in Literary Art, see English 19; in Musical Theory, Music 3 and 4.

12. *Philosophy of Religion.* C

Professor CAMPBELL. Second Semester, 2 hrs.

The unitary in ethnic religions; the Greek Pantheon as a system of Ethics; validation of theistic ideas: rational development of the spiritual life; sacred books; claims and dominant ideas of Christianity. Among the references are: Tiele's *Science of Religion;* Campbell's *Religion in Greek Literature;* Kellogg's *Genesis of Religion;* Harris's *Philosophical Basis of Theism;* Caird's *Philosophy of Re-*

ligion; Caldecott's *Philosophy of Religion;* Fairbairn's *Philosophy of Religion and of History;* Wright's *Scientific Aspects of Christian Evidences,* — the last used as a text-book. This course is intended quite as much for all who are seeking a rational basis for religious opinions as for those who have in mind the ministerial work. Recitations, lectures, synopses of critical readings, discussions.

13. *Introduction to Philosophy.* C

Dr. JOHNSTON. First Semester, 3 hrs.

A general survey of the field of Philosophy, with especial reference to the definition of its problem, its spirit, its method, and its relation to the various sciences; the doctrine of nature and of mind, of knowledge, and of being; the reconciliation of mechanism and teleology. It is the purpose of this course to introduce men in a non-technical way to the general problems of Philosophy, and to suggest their possible solutions. Recitations, readings, and a thesis. (Paulsen's *Introduction to Philosophy.*) Open only to Seniors. Presupposes any two courses in Philosophy.

14. *Metaphysics.* C

Dr. JOHNSTON. Second Semester, 3 hrs.

The fundamental problems of Theoretical Philosophy. The conception of Reality, the Idea of God, the relations between the individual self and the world. It is the purpose of this course to enable men to frame for themselves a personal philosophy of life. Recitations, readings, and a thesis. (Royce, *The World and the Individual.*) Open only to Seniors. Presupposes any three courses in Philosophy.

15. *Applied Psychology.* C

Dr. JOHNSTON. First Semester, 1 hr.

This course is described under Education 3. Open to Seniors and Graduates.

17 and 18. *Philosophy of History.*

Professor CAMPBELL. First and Second Semesters.

Origin and development of Civilization. Critical historical studies accompanied by lectures and recitations. A good knowledge of the German language is requisite. Ancient period, first Semester; Modern period, second Semester.

19. *Philosophy of Ethics.*

Professor CAMPBELL. First Semester.

Study and discussion of Kant's *Kritik der praktischen Vernunft*, or of Green's *Prolegomena*.

20. *Philosophy of the State.*

Professor CAMPBELL. Second Semester.

Man as a philosopher, developing his political environments. Outlines of historical theories. Monarchy and its differentiations. Democracy and its limitations. Fundamental relations of Executive, Legislative, and Judicial factors. Powers and functions of the modern State.

21 and 22. *Systematic Philosophy.*

Professors CAMPBELL and HORNE. First and Second Semesters.

Independent investigation at the sources of some important philosophical work, ancient or modern. Selection may be made from Greek, Latin, German, French, or English texts. It is the aim to develop a competency for exact research according to the methods of recent literary and historical criticism.

Course 17, and the following courses are intended for graduate students, hours and days to be arranged with the instructor. They may, however, be elected by undergraduates who have made them a part of their group in Philosophy, or who have satisfied the instructor as to their competency to pursue them.

BIBLICAL LITERATURE

1 and 2. *The Poetry and Prose of the Bible.* A

Professor VERNON. First and Second Semesters, 1 hr.

The object of the course is to enable men to estimate the place of the Bible in Literature, partly by showing its influence on literature, but chiefly by reading and commenting upon noteworthy specimens of the various literary types in the Bible itself. Students will provide themselves with the American Revised Version of the Scriptures.

Open to Sophomores only.

3. *The Early Religion of Israel.* A or B

Professor VERNON. First Semester, 3 hrs.

The course begins with a somewhat detailed examination of the Conquest of Palestine and the life of the nation in Canaan previous to the Disruption under Jeroboam I. With the results thus gained, an attempt is made to sift the traditions of the Pentateuch in order to disclose, as far as may be, the origin of the religion of Jehovah. The growth of the religion is traced until the emergence of written prophecy.

4. *Hebrew Monotheism.* A or B

Professor VERNON. Second Semester, 3 hrs.

The course is a rapid survey of the Prophetic period of Israelitish history, of the growth of Messianic thought, of the development of Legalism, of the apocalyptic and wisdom literature, of the Maccabean uprising and dynasty, and of the origin of the great Pharisaic and Sadducean movements.

This course is open, only after personal conference with the Instructor, to those who have not completed Course 3.

The object of these courses is to enable those who take them to read the Old Testament critically and appreciatively. Lectures, text-references, essays, reports of specially assigned readings, and recitations will be employed so far — and only so far — as they further this object.

Students are expected to provide themselves with the American Revised Version of the Scriptures and with H. P. Smith's *Old Testament History*.

Courses 3-4 and 5-6 are given in alternate years.

5. *The Figure of Jesus Christ in the light of Modern Criticism.* A or B

Professor VERNON. First Semester 3 hrs.

This course, open to Juniors and Seniors, inquires into the credibility of the Gospels, into the historicity of the miraculous, into the life and thought of contemporary Judaism, in order to present as clearly as possible the public career, the teaching and the self-consciousness of the supreme figure in history. Lectures and discussions.

6. *The History of the Early Church.* A or B

Professor VERNON. Second Semester, 3 hrs.

This course, open to Juniors and Seniors, considers the founding of the Christian Church, its early organization and sacraments, but chiefly the various types of Christian thought as laid bare in the different books of the New Testament. The course closes with an attempt to separate the elements of Christianity which are common to all the leaders of the apostolic age, from those elements peculiar to the individual writers, in order that the essence of historic Christianity may be made clear. Recitations and discussions. The text-book is McGiffert's Apostolic Age.

Courses 5 and 6 are offered in 1907–1908.

A Minor may be secured in Biblical Literature by completing Courses 3, 4, 5, and 6, or by combining two of these courses, treated as B courses, with two courses in History or with two courses in Philosophy.

MUSIC

1. *Music as an Art.* A

Director MORSE. First Semester, 3 hrs.

A general study of the development of the art of music, designed to prepare one to understand and appreciate musical performances. No previous musical study is necessary in preparation for this course. Sound, musical sound, notation, rhythm, melody, harmony, their evolution and application in modern music. *Structure of Music*, Gow; Tyndall's *Sound;* Sedley Taylor's *Sound and Music.*

2. *Music as an Art* (*continued*). A

Director MORSE. Second Semester, 3 hrs.

Musical forms with analyses. Study of the great composers, their lives, works, characteristics, and their influence upon the development of modern music. An "Angelus" piano-player will furnish abundant means for study and illustration in this course. *Musical Forms*, Mathews.

3 and 4. *Harmony.* B

Director MORSE. First and Second Semesters, 3 hrs.

Systematic study of intervals and chords, and their correct and effective use in four-part harmony. Ability to play four-part harmony

(like a hymn tune) is necessary for this course. Emery's *Harmony;* Boise; Richter; Foote-Spalding.

ARCHÆOLOGY

1. *Greek Art.* A or B

Professor G. D. LORD. First Semester, 3 hrs.

This course, beginning with an introduction on the Arts of Egypt, Assyria, and Phœnicia in their relation to Greek Art, presents the History of Greek Art in its most significant products of Architecture, Sculpture, and Painted Vases. In this course, and in those that follow, constant use is made of the Sullivan collection of photographs purchased by contributions from the alumni. Text-book supplemented by discussions, and lectures illustrated by lantern slides. Open to Seniors and Juniors.

2. *Greek Life.* A or B

Professor G. D. LORD. Second Semester, 3 hrs.

The Life of the Ancient Greeks, particularly the Athenians, from the evidence of the Monuments and of the Literature. By manual, assigned readings, and lectures. Open to those who have passed Archæology 1 or Greek 5 and 6.

Courses 1 and 2 count as A courses for those who have not had Greek in college.

3. *Topography and Monuments of Greece.* B

Professor G. D. LORD. First Semester, 3 hrs.

This course informs the student of the sources and the more important characteristics of the materials for Greek Archæology. Selections from Pausanias will be read, with critical commentary, covering a part of his description of the topography and monuments of Athens, Eleusis, Olympia, and Delphi. Open to those who have passed Greek 5 and 6.

Courses 3 and 3 a are offered in alternate years.

3 a. *Introduction to Greek Epigraphy.* C

Professor G. D. LORD. First Semester, 3 hrs.

In this course the development and the more important characteristics of Attic Inscriptions will be studied by the aid of a carefully

selected collection of squeezes. The last half of the course will be devoted to the study of a limited period in Athenian history where the sources are conspicuously Epigraphical. Open only to those who have passed Greek 5 and 6.

Not offered in 1906–1907.

4. *Greek Sculpture.* C

Professor G. D. LORD. Second Semester, 3 hrs.

Sculpture; study by readings and by lectures. Independent studies from casts and photographs are required. Ability to read French and German is very desirable for this course, but will not be required at present. Open to those who have passed Greek 5 and 6, or Archæology 1.

5. *Roman Archæology I.* B

Professor MOORE. First Semester, 3 hrs.

A detailed study of the Fora, the Capitoline, and Palatine, with constant reference to texts and inscriptions; followed by a general survey of Roman architecture in the provinces. Open to those who have passed Latin 3 and 4, or equivalent courses.

6. *Roman Archæology II.* B

Professor MOORE. Second Semester, 3 hrs.

Portrait sculpture and the interpretation of historical reliefs. Decoration in fresco and mosaic. The domestic arts. Prerequisite, Course 5.

FINE ARTS

1. *Italian Painting.* A

Professor KEYES. First Semester, 3 hrs.

This course presents a general view of Italian painting from the decline of the Roman Empire through the best period of the Renaissance. The attempt is made to develop the subject logically by means of copious illustration and the discussion of causes as well as results.

Open only to Seniors and Juniors.

2. *Painting in the Netherlands and Germany.* A
Professor KEYES. Second Semester, 3 hrs.

This course presents a general view of painting in Flanders, Holland, and Germany from the fourteenth to the seventeenth century. Special emphasis will be given to the consideration of Dürer, Rubens, and Rembrandt.

Open only to those who have taken Course 1.

3. *Principles of Art Criticism.* B
Professor KEYES. First Semester, 2 hrs.

A consideration of the underlying principles governing the Fine Arts and an endeavor to make them available for purposes of independent criticism.

Not offered in 1906–1907.

EDUCATION

History 1 and 2 and Philosophy 1 and 2 are strongly recommended as preparation for the courses in Education.

1. *History of Education.* B
Mr. LEWIS. First Semester, 3 hrs.

This course is designed to give the student an appreciation of the meaning of Education and an acquaintance with the rise and historical solutions of its chief problems. The development of educational thought is traced in its relations to the development of civilization. Special stress is laid on education since the Renaissance. The main facts about the national school systems and the educational reformers are considered important, but no attempt is made in so brief a course to accumulate a mass of easily forgotten details. Rather the emphasis of the work is laid on an endeavor to understand the significance of the important facts for our present educational problems in the United States. Topical studies with supplementary lectures.

2. *Introduction to Educational Theory.* B
Mr. LEWIS. Second Semester, 3 hrs.

The aim of this course is to present such well-accepted principles and to discuss such important problems in the field of education as

will be of value to the citizen, parent, and member of school board, as well as to the teacher. The following topics indicate the nature and scope of the work: The Meaning, Scope, and Aim of Education; Individual and Social Aspects; the Relation of Psychology and Ethics to Educational Theory and Practice; Factors in Education; Elementary and Secondary Schools, their Special Aims and Courses of Study; Educational Values; Correlation of Studies; Flexibility; General Principles of Method; School Hygiene; Moral Training.

Recitations, lectures, discussion, and required readings. Professor Horne's *Philosophy of Education* will be used as a text-book during the first part of the course.

Courses 1 and 2 are open to Seniors, and to Juniors by permission of the instructor.

3. *Applied Psychology.* C

Professor HORNE. First Semester, 1 hr.

Lecture course. Subject: the Application of the Science of Psychology to the Art of Teaching. Readings and thesis. This course is intended for Seniors and Graduates who expect to enter the profession of teaching. Philosophy 1, or its equivalent, is presupposed.

A Minor in Education is obtained by combining History 1 and 2 or Philosophy 1 and 2 or Sociology 1 and 2 with Education 1 and 2.

REGISTRATION OF DARTMOUTH TEACHERS

The Department of Education conducts a registration bureau for Dartmouth teachers. For registration blanks apply to F. C. Lewis, Instructor in Pedagogy, Hanover, N. H.

TEACHERS' CONFERENCES

A conference of teachers in secondary schools is held at the College every year. The whole time of each conference is given to the discussion of the work in some one department, or group of closely related departments.

Conferences have been held as follows:

May 9–11, 1901 — History.
May 8–10, 1902 — Latin and Greek.
May 14–16, 1903 — English.
May 12–14, 1904 — Mathematics.
May 11–13, 1905 — The Function of the School in Developing Character.
May 3–5, 1906 — Modern Languages.

The conference in 1907 will be in Physics and Chemistry, at the usual time.

OUTLINE OF STUDIES

FRESHMAN YEAR

FIRST SEMESTER

A.B.

PRESCRIBED

	hrs.
Greek 5, or French 5, or German 5	3
Latin 1	3
English 1	3
Mathematics 1	3
Physical Culture	1
	13

ELECTIVE (choose one)

	hrs.
Greek 1, French 1, German 1	3
	3
	16

B.S.

PRESCRIBED

	hrs.
French 5, or German 5	3
English 1	3
Mathematics 3	3
Physical Culture	1
	10

ELECTIVE

(Choose one from each group)

		hrs.
Greek 1, French 1, German 1	Group I	3
Graphics 1, Physics 1, Chemistry 3, Biology 1, History 1	Group II	3
		6
		16

SECOND SEMESTER

A.B.

PRESCRIBED

	hrs.
Greek 6, or French 6, or German 6	3
Latin 2	3
English 2	3
Mathematics 2	3
Physical Culture 2	1
	13

ELECTIVE (choose one)

	hrs.
Greek 2, French 2, German 2	3
	3
	16

B.S.

PRESCRIBED

	hrs.
French 6, or German 6	3
English 2	3
Mathematics 4	3
Physical Culture 2	1
	10

ELECTIVE

(Choose one from each group)

		hrs.
Greek 2, French 2, German 2	Group I	3
Graphics 2, Physics 2, Chemistry 4, Biology 2, History 2	Group II	3
		6
		16

Students presenting Mathematics II for admission will take Mathematics 3; those presenting only Mathematics I, will take Mathematics 1.

SOPHOMORE YEAR

Each student must elect 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 3	3	German 1	3	Chemistry 5	3
Greek 7	3	German 3	3	Biology 1	3
Greek 15	1	German 7	3	Biology 12	2
Latin 3	3	German 9	3	Biology 3	3
Latin 5	3	German 11	3	Biology 5	3
Latin 7	1	German 13	3	History 1	3
English 3	3	Mathematics 5	2	History 3	3
English 9	3	Mathematics 7	3	Economics 1	3
French 1	3	Mathematics 9	5	Philosophy 1	3
French 3	3	Graphics 3	3	Biblical Literature 1	1
French 7	2	Physics 1	3	Music 1	3
French 11	3	Physics 3	3	Music 3	3
Spanish 1	3	Chemistry 3	3	Archæology 1	3
Italian 1	3				

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 4	3	Italian 2	3	Chemistry 4	3
Greek 8	3	Italian 4	2	Chemistry 6	3
Greek 16	1	German 2	3	Biology 2	3
Latin 4	3	German 4	3	Biology 4	3
Latin 6	3	German 8	3	Biology 6	3
Latin 8	1	German 12	3	History 2	3
English 4	3	German 14	3	History 4	3
English 8	1	Mathematics 8	5	Economics 2	3
English 10	3	Mathematics 10	5	Philosophy 2	3
French 2	3	Graphics 4	3	Biblical Literature 2	1
French 4	3	Physics 2	3	Music 2	3
French 8	2	Physics 4	3	Music 4	3
French 12	3	Chemistry 2	3	Archæology 2	3
Spanish 2	3				

JUNIOR YEAR

Each student must elect 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 9	3	Italian 5	3	Biology 7	3
Greek 11	3	German 7	3	Mineralogy 1	3
Latin 9	1	German 9	3	History 3	3
Latin 11	3	German 11	3	History 5	3
Latin 13	3	German 13	3	History 7	3
Latin 15	3	German 15	3	History 9	3
Latin 17	3	German 17	3	Economics 1	3
English 5	3	German 19	3	Economics 3	3
English 11	3	German 21	1	Political Science 1	3
English 13	3	Linguistics 11	2	Sociology 1	3
English 15a	3	Mathematics 11	3	Philosophy 1	3
French 7	2	Graphics 5	3	Philosophy 3	3
French 9	3	Physics 3	3	Philosophy 7	2
French 11	3	Physics 5	3	Biblical Literature 3	3
French 13	3	Physics 7	3	Biblical Literature 5	3
French 15	3	Astronomy 1	3	Music 1	3
French 17	3	Chemistry 3	3	Music 3	3
French 19	3	Chemistry 5	3	Archæology 3	3
Spanish 1	3	Chemistry 7	4	Archæology 3a	3
Spanish 3	3	Biology 3	3	Archæology 5	3
Italian 1	3	Biology 5	3	Fine Arts 1	3

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 10	3	Italian 6	3	Biology 10	3
Greek 12	3	German 8	3	Geology 2	3
Latin 10	1	German 12	3	History 4	3
Latin 12	3	German 14	3	History 6	3
Latin 14	3	German 16	3	History 10	3
Latin 16	3	German 18	3	History 12	3
Latin 18	2	German 20	3	Economics 2	3
English 6	3	Linguistics 12	2	Economics 4	3
English 8	1	Mathematics 12	2	Political Science 2	3
English 16	3	Engineering 2	3	Political Science 8	2
French 8	2	Physics 4	3	Sociology 2	3
French 10	3	Physics 6	3	Philosophy 2	3
French 12	3	Physics 8	3	Philosophy 4	3
French 14	3	Astronomy 2	3	Philosophy 8	2
French 16	3	Astronomy 6	3	Biblical Literature 4	3
French 18	3	Chemistry 4	3	Biblical Literature 6	3
French 20	3	Chemistry 6	3	Music 2	3
Spanish 2	3	Chemistry 8a	4	Music 4	3
Spanish 4	3	Chemistry 8b	4	Archæology 4	3
Italian 2	3	Biology 4	3	Archæology 6	3
Italian 4	2	Biology 6	3	Fine Arts 2	3

SENIOR YEAR

Each student must elect 12 to 15 hours.

FIRST SEMESTER

	hrs.		hrs.		hrs.
Greek 9	3	Linguistics 11	2	Economics 9	2
Greek 11	3	Linguistics 15	2	Economics 11	3
Latin 9	1	Linguistics 17	3	Economics 13	3
Latin 11	3	Linguistics 19	3	Economics 15	1
Latin 13	3	Mathematics 13	3	Political Science 3	2
Latin 15	3	Physics 9	3	Political Science 5	3
Latin 17	3	Physics 11	2	Political Science 7	2
English 5	3	Physics 13	2	Political Science 9	2
English 11	3	Astronomy 3	3	Sociology 3	3
English 13	3	Astronomy 7	3	Philosophy 3	3
English 19a	3	Chemistry 5	3	Philosophy 5	2
English 21	3	Chemistry 7	4	Philosophy 7	2
English 23	1	Chemistry 13	3	Philosophy 9	2
French 13	3	Chemistry 15	3	Philosophy 11	2
French 15	3	Biology 7	3	Philosophy 13	3
French 17	3	Biology 9	4	Biblical Literature 3	3
French 19	3	Biology 13	3	Biblical Literature 5	3
Spanish 3	3	Histology 1	3	Archæology 3	3
Italian 5	3	Anatomy 1	3	Archæology 3a	3
German 11	3	Physiology 1	3	Archæology 5	3
German 15	3	Geology 3	3	Fine Arts 1	3
German 17	3	History 3	3	Fine Arts 3	2
German 19	3	History 5	3	Education 1	3
German 21	1	History 7	3	Education 3	1
Linguistics 1	3	History 9	3	Tuck School	18
Linguistics 3	2	Modern History 1	3	Thayer School	18
Linguistics 5	3	Economics 5	3	Medical School	18
Linguistics 7	2	Economics 7	3		

SECOND SEMESTER

	hrs.		hrs.		hrs.
Greek 10	3	Linguistics 16	2	History 12	3
Greek 12	3	Linguistics 20	3	Economics 6	3
Latin 10	1	Mathematics 14	2	Economics 8	3
Latin 12	3	Mathematics 16	3	Economics 10	3
Latin 14	3	Physics 10	3	Economics 12	3
Latin 16	3	Physics 12	2	Economics 14	3
Latin 18	2	Astronomy 4	3	Economics 16	1
English 6	3	Astronomy 8	3	Economics 18	2
English 22	3	Chemistry 6	3	Political Science 4	1½
English 24	1	Chemistry 8a	4	Political Science 6	3
French 14	3	Chemistry 8b	4	Political Science 8	2
French 16	3	Chemistry 12	2	Sociology 4	3
French 18	3	Chemistry 14	3	Philosophy 4	3
French 20	3	Chemistry 16	3	Philosophy 6	2
Spanish 4	3	Biology 10	3	Philosophy 8	2
Italian 6	3	Biology 12	3	Philosophy 10	2
German 12	3	Biology 14	3	Philosophy 12	2
German 16	3	Biology 16	2	Philosophy 14	3
German 18	3	Bacteriology 2	3	Biblical Literature 4	3
German 20	3	Anatomy 2	3	Biblical Literature 6	3
Linguistics 4	2	Physiology 2	3	Archæology 4	3
Linguistics 8	2	Geology 4	3	Archæology 6	3
Linguistics 10	3	History 4	3	Fine Arts 2	3
Linguistics 12	2	History 6		Education 2	3
Linguistics 14	3	History 10	3		

GENERAL REGULATIONS

I. REGISTRATION

All undergraduate students are required to register before the opening of the year, on Wednesday from 4 to 5 P. M., or on Thursday from 8 to 9 A. M. Any undergraduate failing to register at the appointed time will be charged with overcuts until the time of his registration at the Dean's office, unless previously excused.

All students entering College (this rule includes all students entering upper classes) must register with the Dean during the three days previous to the opening of the year, and must receive matriculation papers from the President before entering upon the work of the College.

II. ATTENDANCE AT EXERCISES

Attendance is required of all undergraduates at recitations and lectures continuously through each semester according to the time-table of the studies pursued. Attendance is required also at College prayers, on week days at 7.50 A.M., and on Sundays at 5.30 P.M.

A student may absent himself from seven chapel services in each semester; and from each course of instruction as many times as the course is scheduled exercises per week, without affecting his standing, provided, however, that he meets all the requirements of the instructor.

These allowed absences cannot be taken *immediately preceding* or *following* a recess or vacation.

Each unexcused absence from recitation in excess of those allowed above shall entail a deduction of *four* points from the mark in the course in which the absence occurred; and for each absence in excess of the allowed number from chapel, a deduction of *one* point shall be made from the student's general average; when his general average is brought below 50 by excess of chapel absences he shall be required to take additional hours of recitation work, the amount to be determined by the Committee of Administration.

The Medical Director has sole charge of all excuses for absence occasioned by sickness, but under the Physicians' certificate system no excuse will be allowed for the first day's absences for sickness.

The Committee on Athletics has sole charge of all excuses for absence granted to the various Athletic teams.

The Committee on non-athletic Organizations has sole charge of all excuses for absence granted to the various organizations under its control.

The Dean has power to grant excuse for absence for all other causes. All applications to the Dean for excuse for absence shall be made in writing, with full statement of reasons, and shall be presented in person. A blank form will be furnished at the office. They must be in advance, if possible. If, by reason of impossibility, they are not made in advance, they must be made within three days after the expiration of the period of absence, and must contain a full statement of the reason for the delay in presentation.

Absence from any exercise shall not release the student from the responsibility for the work required of other students, or which would have been required of him if he had been present.

Students absent for any reason more than five exercises per semester hour from a laboratory or lecture course, or more than ten exercises per semester hour from a recitation course, shall receive no credit for such course.

III. SCHOLARSHIP

The general average of the marks of each student for the several departments shall be ascertained every semester, each course having weight in proportion to the number of exercises assigned to it, and the relative importance of recitation and examination (in each course) depending upon the nature of the course and the method of instruction.

This general average shall be the student's scholarship mark for the semester, subject, however, to a deduction for excess of absences; the number of hours upon which the standing of a student shall be computed shall not be less than the minimum number of hours required for that semester.

When a student has met all the requirements of a course, a single numerical mark shall be recorded, indicating that he has *passed* in the course.

A statement of the numerical standing in each subject and of the general average together with a record of absences shall be sent twice annually to each student and to his parent or guardian.

Students whose standing for the whole College course averages 85, or more, receive Commencement Appointments.

Freshmen whose attendance is unsatisfactory or who show by their current work that they are unfitted to continue in College shall be dismissed from College at the close of the first semester.

A student reported as *failed* in any course of Freshman year or in any course in a group of electives essential to a degree must repeat that course with the next class, except that a failure in the first semester of Senior year may be made up by an equivalent course in the second semester, assigned by the Committee of Administration.

IV. EXAMINATIONS

The regular examinations in each course of study are held in the middle and at the close of the year.

Students are required to be present promptly at the hour named for the examination, and no one is admitted after seven minutes have elapsed.

Only *one* examination will be allowed a student in any subject; an examination may be deferred on account of severe sickness, or for some equal necessity, but this deferment must be secured *in advance*

The Dean alone has power to defer an examination.

Any student proved to have been dishonest in examination shall be deemed to have forfeited his right to be a member of the College, and shall be permanently separated therefrom.

V. ENROLLMENT IN CLASSES

A student shall be enrolled in the Freshman class until he has completed at least twenty-two semester hours of work, and has removed all entrance conditions in subjects due from him in Freshman year; he shall then be enrolled in the Sophomore class until he has completed fifty-four semester hours, including all requirements of Freshman year and has removed all entrance conditions due from him in Sophomore year; then in the Junior class until he has completed at least eighty-six semester hours; then in the Senior class until he has completed one hundred and twenty-two semester hours,

which is the requirement for a degree. A Freshman who has failed to be promoted with his class must repeat all courses in which he has failed, and may take additional courses with the higher class to fill out the number of hours required; such students must arrange their schedules in consultation with the Dean.

VI. COLLEGE ORGANIZATIONS

No Athletic contest shall take place before 4 P.M., except on Saturday afternoon and holidays, unless by special permission of the Committee on Athletics.

The names of all candidates for the various athletic teams must be furnished to the Committee on Athletics and to the Dean, to be posted on the bulletin board not later than October 1st, December 1st, and April 1st for the autumn, winter, and spring contests, respectively.

No special student, nor one who is on probation, nor one who is objected to by the Committee of Administration, nor one who fails to meet the requirements of the Faculty shall be allowed to be a member of any athletic team or other organization representing the College.

For complete regulations, see "Regulations of the Faculty" published in September of each year.

RELIGIOUS SERVICES

Prayers are conducted by the President each week-day morning in Rollins Chapel, and a vesper service is held on Sunday. All undergraduate students are required to be present.

While the service on Sunday in Rollins Chapel is the recognized service for all students, insuring unity in the worship of the College, provision is made for the attendance of students at the churches of the town. The hour of Chapel Service has been fixed in the latter part of the day to enable students to attend a morning service in the churches of their respective faiths. The churches in Hanover are the old College Church (Congregational), St. Thomas Church (Episcopalian), and St. Denis Church (Roman Catholic).

At the College Church the service of a Board of Preachers has given place to the constant service of a Pastor, the Reverend Ambrose W. Vernon, who is also Phillips Professor of Biblical Literature. The attention of the students is particularly called to the opportunity for Biblical Study through the courses offered by Professor Vernon, —see department of Biblical Literature.

Bartlett Hall offers ample and attractive rooms for the use of the Dartmouth Christian Association. The Association is in charge the present year of Mr. A. Karl Skinner as Secretary, a graduate of 1903, to whom all communications may be addressed in regard to the religious work of the College, or the religious life of the students.

The Brotherhood of St. Andrew maintains an organization among the students connected with the St. Thomas Church.

The Dartmouth Catholic Club is an organization of the students connected with the St. Denis Church.

EQUIPMENT

THE LIBRARY

In its several collections, the College Library represents the accumulations of a century and a quarter. It originated in valuable gifts of books to the first President from English and Scotch societies for promoting religious knowledge; also, from the Rev. John Erskine, Mr. William Dickinson, and others. Similar benefactions have followed, among the more important of which are the Johnson, Phillips, Shattuck, Shurtleff, Parker, Smith, Appleton, Bond, Grimes, and Chamberlain donations.

Through the generosity of Mr. Edward Tuck, there has just been added the library of Romance Philology of 1800 volumes, collected by the late Professor E. Koschwitz, of the University of Königsberg, Germany.

For many years separate libraries were sustained and managed by the public literary societies of the students, known as the Social Friends and the United Fraternity. The Philotechnic Society, organized at a later date among the students of the Chandler School, also made important additions to these collections.

In 1874 the different libraries were consolidated, and put under the control of the College, but the principle of voluntary contribution, by which the collections were so largely gathered, is still maintained, and the annual sum of six dollars is collected from each student, for convenience, with the tuition. According to the agreement through which this annual assessment is made, the selection of books to the value of several hundred dollars yearly is devoted to works of general and popular interest.

The main collection, numbering about 100,000 volumes and 20,000 pamphlets, with a large accumulation of newspapers and manuscripts, is in Wilson Hall, a commodious and convenient fire-proof building, constructed after approved plans of library architecture. The building is heated by steam, and, including the stack-room, lighted by electricity. The books are arranged according to the "expansive

system," so modified as to correspond as nearly as possible to the departments of instruction in the College. There is a card catalogue of authors and titles, and also a classed catalogue of subjects.

The general and departmental reference library, which consists of books reserved for general reference and collateral reading, occupies two rooms on the upper floor, and is open throughout the day and evening. This department contains about 10,000 volumes, which are classified according to subjects, arranged upon open shelves with a few exceptions, and may be loaned for the night. This department is under the supervision of the Superintendent of Reference Rooms.

The transfer has been made of the standard books in literature including fiction to a separate room, where there may be free access to the shelves. The object of this transfer is to allow the greatest familiarity on the part of students with books of the greatest literary value. It is the desire of the management of the Library that students should not only read individual books but that they should know books and authors as making up a library. Books may be taken from the shelves of this room for use in the room, or they can be charged at the counter under the usual rules for the drawing of books. A standard library of the "books of power" by great authors is soon to be installed in this room to be known as the "Kenerson Memorial Standard Library" from the income of a fund of $3000 given by Mrs. Austin H. Kenerson.

In an adjacent room may be found current files and bound volumes of leading periodicals, maps, and equipment for the study of current events.

Wilson Hall also contains over one hundred portraits in oil, and a good collection of photographs for the illustration of art and archæology, coins, curios, etc.

There are department libraries at the Medical School, the Tuck School, the Observatory, the Thayer School, Bartlett Hall, as well as in the Physical, Chemical, Geological, Botanical, and Zoölogical Laboratories, and in the rooms occupied by the departments of Greek, Latin, and Social Science.

The rooms in Wilson Hall formerly used for offices of college administration are now used for collections on the subject of education for the special benefit of the Faculty.

Books may be drawn for two weeks, excepting certain volumes so indicated, which have been added during the college year, and may be retained but one week. Undergraduates may have four books at a

time; resident graduate students, ten; alumni, four. Persons not connected with the College may use the Library upon the payment of four dollars yearly.

The reading and reference rooms are open on week days from 8 A.M. to 10 P.M.; on Sunday the reading room is open from 1.30 to 5.30 P.M.

The Library is open for drawing books from 8 A.M. to 12 M., and from 1 to 6 P.M.

Special attention is given to bibliology, supervision of courses of reading, and personal assistance.

ARCHÆOLOGICAL AND ART COLLECTIONS

In the rebuilding of Dartmouth Hall provision has been made for the Archæological and Art collections, and also for seminary work in the departments of Archæology and Fine Arts.

A working collection of casts and photographs for Greek and Roman Archæology is in Room S, with recitation and seminar rooms connected.

The College has received the gift of $5000 from Henry Lynn Moore, of Minneapolis, Class of 1877, as a memorial to his son, Guernsey Centre Moore, who died in 1901 in the midst of his college course: the income from this fund is to be used for the "purchase of objects of Artistic merit and value."

Courses in the history of Modern Art have been introduced and will be further developed. The equipment for these courses consists of over 2000 photographs, illustrative of Italian, German, and Netherlands painting; a growing collection of lantern slides illustrative of the history of architecture and of painting; and a seminar library sufficient to the immediate requirements of the courses offered. The Fine Arts seminar room in Dartmouth Hall is arranged for the advantageous exhibition of photographs and similar material, while special provision is made in Room A for lantern lectures in Archæology and Fine Arts.

BUTTERFIELD MUSEUM

By the will of the late Ralph Butterfield, M.D., of Kansas City, of the Class of 1839, the College was made the residuary legatee of his estate, in a sum estimated at one hundred and sixty thousand dollars,

"for the purpose of founding and forever maintaining a chair and professorship for the purpose of lectures, recitations, and general instruction in paleontology, archæology, ethnology, and other kindred subjects; and for the erection of a building to cost not less than thirty thousand dollars, for the purpose of keeping, preserving, and exhibiting specimens illustrating the aforesaid branches. It is to be optional with the Trustees either to establish a professorship or a series of lectures at stated periods, on the subjects mentioned."

In accordance with the expressed wish of the donor, the Butterfield Museum, a granite and Roman brick structure, one hundred and forty-five by fifty-five feet in dimension, of three stories and a basement, has been erected, and is now occupied by the various departments indicated in the above bequest. Special facilities are offered for instruction in Geology and Mineralogy, in Zoölogy and Botany, and in Archæology and Sociology.

The collections in Geology and Biology are arranged in the Butterfield Museum. Upon the upper floor there are the Frederick Hall cabinet of minerals; the Clinton H. Moore Museum of the ores and minerals of the Rocky Mountain region; the fossil footmarks of the Connecticut valley; a systematic collection in Conchology, and numerous topographical maps and models. The principal part of the second or main floor is occupied by the General Museum of Geology and Paleontology; a special collection of the rocks of New Hampshire and Vermont, gathered according to the plans of the State Geological Survey; lecture and departmental library rooms for Geology, Mineralogy, and Sociology, and offices for the curator and instructors.

A valuable Ethnological collection occupies a room at the east end on the second floor, and the unsurpassed specimens of Assyrian Sculpture are arranged along the walls of the adjoining hall.

The main Biological Laboratory is a large room eighty-four by thirty feet, on the north side of the first floor. It is used for the elementary biology courses. At the west end of the first floor is the laboratory for the embryology course and for the advanced workers. At the east end is a Biological library, and also a Botanical Laboratory. Here also are located the Henry Fairbanks collection of birds and the very complete and valuable collection of American birds' eggs presented to the College by Curtis Plummer of the Class of 1907.

In the basement there is a large room fitted for the work in mammalian anatomy and in the comparative anatomy of vertebrates.

Adjoining this laboratory is a thoroughly equipped macerating-room. On the south side cases have been constructed to contain a large Herbarium of both phenogamous and cryptogamous plants, including those bequeathed to the College by the late Professor H. C. Jesup.

In addition to the above-named rooms are five private rooms for instructors, a chemical room, and two storerooms. All the laboratories are well equipped with the apparatus necessary for practical biological work.

PHYSICAL LABORATORY

The Wilder Laboratory, the gift of the late Mr. Charles T. Wilder, of Wellesley, Mass., has been occupied since its completion in the summer of 1899 by the department of Physics. The building has a frontage of one hundred and seven feet, and a depth of fifty-six feet, and a rear projection of fifty-five by thirty-five feet.

The laboratories, lecture, and recitation rooms occupy three stories and a basement. The basement contains a well-equipped workshop and a dynamo room, magnetic and electrical laboratories, a storage-battery room, and a laboratory for constant-temperature experiments. A large lecture room (seating 200 persons), arranged for lantern projection, and equipped with many conveniences for the purpose of general lectures in physics, is on the first floor. The floor is further divided into offices for the members of the department, two recitation rooms, an electrical laboratory, and an apparatus room. The general laboratory provided for students in the first course in practical physics occupies a section of the second and third floors. The remainder of these floors is given up to the departmental libraries in physics and astronomy, two apparatus rooms, a chemical kitchen, two suites of rooms for assistants in the department, an unpacking room, and eleven laboratories planned with reference to special work in optics, spectrometry, photometry, photography, acoustics, electric waves, and the heat spectrum.

The building is heated by steam (both direct and indirect radiation) and lighted by electricity. It is supplied, throughout, with water, illuminating gas, and air under pressure; and a part of the building is provided with connections for oxygen and hydrogen gases. The laboratories and lecture rooms are connected by separate circuits with a large switchboard in the basement, so that the electrical power of the generators and storage battery is accessible to all parts of the building.

At present the laboratory is supplied with a 220 volt direct current power circuit, an alternating circuit and transformer, a direct current 110 volt 3 kilowatt generator, a 1000 volt storage battery of small capacity, a chloride accumulator of 60 volts.

Each room is further provided with a separate signal circuit connecting it with a telephone switchboard on the second floor so that time signals may be sent, and other electric communication is easily possible between different parts of the building.

The equipment of the department with instruments and apparatus is being carried forward by the income from funds left the department by Mr. Wilder. The present equipment is adequate for the needs of the lectures in general physics, the junior course in practical physics, and for the advanced courses which are offered.

The nearness of the physical laboratory to the astronomical observatory affords to either department the resources of the other.

OBSERVATORY

The Shattuck Astronomical and Meteorological Observatory is used for the purposes of instruction. It is provided with a telescope by Clark, having an aperture of 9.4 inches, and a focal length of 12 feet, a spectroscope, a four-inch meridian circle, a three-inch transit and zenith telescope by Saegmuller, sextants, clocks, chronograph, and level-trier.

CHEMICAL LABORATORY

The chemical Laboratories are on the first and second floors of Culver Hall. The first floor is occupied by the lecture room, storerooms, and the laboratory for elementary chemistry and qualitative analysis. This floor has recently been entirely reconstructed, giving a large and convenient laboratory, forty feet by sixty feet, containing eighty-four tables, each with double lockers, giving also the accessory store and reagent rooms, an instructors' office, and an entirely new lecture room. The whole is equipped with the most modern furniture and appliances.

The large northeast room on the second floor is a well-equipped quantitative laboratory, and adjoining rooms are used for balances and library. The large southeast room has recently been fitted up to meet the modern requirements of an organic laboratory, including complete equipment for organic analysis.

In all the courses chemistry is taught by laboratory work, enforced by informal lectures, demonstrations, and short recitations.

CHANDLER HALL

Through the bequest of the late Frank Willis Daniels, of the Class of 1868, Chandler Hall, recently known as Moor Hall, has been purchased, reconstructed, and enlarged, and fitted for the special uses of the departments of Mathematics and Graphics. The first floor furnishes a large lecture room, accommodating over two hundred persons, and rooms for the elementary courses in engineering; the second floor provides four well-arranged rooms for recitation work in mathematics, with private offices for the instructors; the third floor furnishes rooms for recitations, and two large rooms for mechanical drawing, with lighting from above.

The basement is devoted to testing and experimental work in the department of Engineering.

GYMNASIUM AND ATHLETIC FIELD

The Gymnasium is open daily for the use of the students, and during the winter season a regular exercise is required of all members of the Freshman class, and voluntary divisions are formed among members of the other classes. The aim is to reach the large body of students who do not enter into athletic contests, rather than to train athletes.

Through the generous contributions of many of the alumni, an admirable athletic field, with modern improvements, has been laid out near the College buildings. It is provided with all the necessary facilities for base-ball, foot-ball, track athletics, and tennis; including a grand-stand seating six hundred spectators and containing dressing rooms and shower-baths for the use of the students.

All candidates for the Athletic Teams must be examined by the Professor of Physical Culture before they can be accepted as members of a team, and each team is under medical supervision during the period in which it is engaged in sports.

The Professor of Physical Culture who is also Director of the Gymnasium takes the measurement of all students entering College, and conducts the Gymnastic exercises for the Freshman Class during the winter months. The Gymnasium and Athletic Field are in his charge.

The general supervision of athletics in the College is committed to an Athletic Council, consisting of three non-resident alumni, three members of the Faculty, and three undergraduates.

Students are admitted to golf and tennis privileges of the Hanover Country Club at moderate rates by the month or season.

WATER SUPPLY

A system of waterworks, established in 1893 at an expense of $65,000, furnishes, in connection with the aqueduct before in use, an ample supply of water for all purposes. In 1903 the whole area of 1200 acres included within the water-shed was purchased to insure the purity of the water supply. The precinct is supplied with a thorough system of sewers.

HEATING AND LIGHTING PLANT

In 1898 the College adopted the method of heating its buildings from a central station, and constructed a plant on the most approved plan at a cost of $60,000; twenty-nine of its buildings, dormitories, and recitation halls are heated in this way, ensuring a nearly equable temperature.

In 1905 an electrical plant was added for lighting all the buildings of the College through its own service, and also for power when motors are needed.

HOSPITAL

In case of illness, the Mary Hitchcock Memorial Hospital, constructed upon the latest modern plans, and widely known, since its opening in 1893, as one of the best cottage hospitals in the country, furnishes the students such care and comfort as is seldom found outside of the larger cities. Through the kindness of William E. Barrett, of Boston, Mass., of the Class of 1880, provision has been made for the care of students, who are unable to meet the Hospital expenses.

The Hospital is under the management of physicians and surgeons who are connected with the Dartmouth Medical School, and students who enter the Hospital are in charge of members of the Hospital Staff. In the case of students whose parents would prefer to have them treated exclusively by the family physician, the College has

made arrangements through which suitable rooms can be secured where the family friends or physician can be in attendance.

All the College buildings are under the direct care and inspection of Dr. Howard Nelson Kingsford, the Medical Director, and every case of illness among the students reported to him receives immediate attention.

ISOLATION HOSPITAL

An Isolation Hospital of twelve beds has recently been furnished and equipped by the College with all the necessities and conveniences for the care of infectious and contagious diseases. This is for the use of the students only, and is entirely under the control of the Medical Director, in whose hands it adds materially to the efficiency with which the health of the student body may be controlled.

COLLEGE SANITATION

All College buildings are under a thorough system of inspection conducted by Dr. H. N. Kingsford, the Medical Director, with a view to the prevention of infectious diseases. Cultures are taken through a corps of medical students at frequent times from all recitation rooms and dormitories. The sources of milk supply for the Commons and the dining clubs are inspected from time to time. Apart from the College buildings, houses in the village where students room are under the inspection of the Medical Director.

THE COLLEGE INN

The Trustees have entirely reconstructed and refurnished the College Inn, known as The Hanover Inn, for the entertainment of alumni, and friends of the students. The Inn is under the management of Mr. Arthur P. Fairfield, of the Class of 1900. Circulars giving all information in regard to location of rooms, prices, etc., can be obtained from him. The Inn is open during the entire year.

RAILROAD CONNECTIONS

The railroad station is known as Norwich and Hanover, on the Passumpsic Division of the Boston and Maine Railroad. White River Junction, four miles south of Hanover, is the centre of four lines of railroads: the Concord Division (Boston and Maine system), making connection with Concord, Manchester, Nashua, Lowell, and Boston (four hours and forty minutes to Boston); the Central Vermont Rail-

road and the Connecticut River Division (B. and M. R. R.), making connection with Springfield, Hartford, New Haven, and New York (eight hours to New York); and also connecting at Greenfield (B. and M. R. R.) and Springfield (Boston and Albany R. R.) for the West; the Central Vermont Railroad, making connection with Montpelier, Burlington, and the West (thirty hours to Chicago); the Passumpsic Division (B. and M. R. R.), making connection with Wells River, St. Johnsbury, Montreal, and Quebec (eight hours to Montreal).

COLLEGE HALL WITH COMMONS

With a view to the proper development of the social life of the College, the Trustees have erected College Hall, situated on the west side of the Campus, with a frontage of eighty feet on Main Street and of one hundred and twenty feet on Wheelock Street. The building also carries an extension for a dining-hall fifty feet by eighty-five feet, two stories in height, and finished in Old English Oak, capable of providing for five hundred students at meals. The dining-hall when used for other purposes will seat a thousand.

The lower floor of College Hall is divided into parlors, reading rooms, and club rooms, accommodating the various College organizations. Several of these rooms are accessible from the general dining-hall, and may be used by the alumni at Commencement, or at other times, for class suppers.

The second and third floors are arranged in suites of rooms or in single rooms for the ordinary use of students, and for the use of the alumni at Commencement. For this latter use they are supplied with necessary articles of furniture. A few rooms on the second floor are reserved for the alumni who may wish to visit Hanover at any time while the College is in session.

In the basement, which was planned for such uses, are a large billiard room, grill room, and the various working rooms connected with the dining-hall.

The Dining-Hall Association, open to the Faculty and to all students, is a co-operative body governed by a President and Board of Directors, elected by the Association. Board is furnished at cost under a system of *à la carte* service. The bill of fare offers a wide range of choice in regard to the variety as well as the cost of board. To insure against loss to the Association, payment in advance or a bond, signed by two responsible parties, is required of each member.

The whole management is under the supervisory control of the Faculty, and the Medical Director is detailed to make frequent inspection of the plant, and also of the water and milk supply.

COLLEGE DORMITORIES

The Dormitory System obtains at Dartmouth partly to secure convenient and comfortable housing of the students and partly to insure the social unity of the College. The dormitories are so arranged that students of varying pecuniary ability are brought together in the same building.

The dormitories are heated by steam, lighted by electricity, and are abundantly supplied with water-closets and bathrooms; with two exceptions they have full janitor service.

All rooms in the College buildings, except College Hall and Wheeler Hall, are unfurnished. In College Hall the bedrooms are furnished with bedsteads, mattresses, and chiffonniers. In Wheeler Hall the bedrooms are furnished with single bedsteads and with a chiffonnier for each student.

Thornton and Wentworth Halls accommodate forty-five students each; having a few single rooms, and twenty suites for two or three.

Reed Hall accommodates about sixty students; having fourteen single rooms, seventeen suites for two, and four suites for three.

Hallgarten Hall accommodates about forty students; having eleven single rooms, fourteen suites for two, and one suite for three. Rooms in Hallgarten do not have janitor service.

Bartlett Hall accommodates about ten students; having four suites for two or three.

Elm House accommodates about twenty students: having four single rooms, and eight suites for two. Rooms in Elm House do not have janitor service.

Sanborn House, erected in 1894, accommodates about fifty students; having six single rooms, twenty-two suites for two, and one suite for three.

Crosby House, erected in 1896, accommodates about forty-five students; having one single room, twenty-one suites for two, and one suite for three. Sixteen of these suites are provided with fireplaces.

Richardson Hall, erected in 1897, accommodates about fifty students; having eight single rooms and twenty-two suites for two. Six-

teen of these suites have fireplaces and six have fireplaces and private bathrooms.

Fayerweather Hall, erected in 1900, accommodates about eighty-five students; having twenty-three single rooms and thirty-one suites for two.

College Hall, erected in 1901, accommodates about forty students; having thirteen single rooms and fourteen suites for two.

Proctor House, rebuilt in 1903, accommodates twelve students; having two single rooms, two suites for two, and two suites for three, each suite having a fireplace.

Hubbard House, renovated in 1904, accommodates about twenty students; having four single rooms, eight suites for two and one suite for three. Two suites have fireplaces. During the present year an annex to the Hubbard House, called New Hubbard, was built, affording accommodations for forty-eight students; having eight single rooms and twenty suites for two.

Wheeler Hall, erected in 1905, accommodates ninety-eight students; having twenty-eight single rooms and thirty-five suites for two. Seven of the single rooms and six of the suites have private toilets; twelve of the suites have fireplaces, and twelve have fireplaces and private toilets.

Two new dormitories completing Fayerweather Row, to be known as North and South Fayerweather, are in the process of construction and will be ready for occupancy in September, 1907. These halls will accommodate one hundred students; having ten single rooms and forty-five suites for two. Twenty-eight of these rooms have private toilets.

ASSIGNMENT OF ROOMS

A permanent list for the assignment of rooms is kept for each class, and the order of names on this list is determined by the dates of application. Students expecting to enter College may at any time within three years of entering make application to the Registrar to have their names put on the list.

To students already in College, rooms are assigned in April for the following year. Students rooming in the College buildings may retain their rooms for the following year by giving written notice to the Registrar before April 1. The rooms not thus retained are offered to the classes in order of seniority, and assignments will be made accord-

ing to the lists for assignment of rooms. One student may hold or engage one-half of a double room, but if by May 31 he has failed to secure a room-mate, he will be obliged to relinquish his claim to the room or become responsible for the full rental for the year. A student who has engaged a room, but who fails to register at the appointed time before the opening of College, must make a deposit of five dollars before September 10, or his assignment will be cancelled and the room relet on the opening day of College. This deposit will be forfeited if the student fails to return to College.

For students entering College, several rooms in each dormitory are reserved which are not offered to the upper classes. Beginning on May 1 of each year, diagrams of these rooms and of other rooms not engaged by men in College will be sent to the members of the incoming class for their choice in order of application. One student may engage one half of a double room, but the College reserves the right to give the other half of the room to any applicant. If by August 1 any applicant to whom a room has been assigned has not been accepted for admission, his assignment will be cancelled and the room relet, unless he chooses to hold the room by making a deposit of five dollars, which amount will be forfeited in case he is not accepted for admission in September.

Each student renting a room must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire College year. No student will be released from the rental of his room except by special permission of the Registrar. The right to occupy a College room is given only to the student to whom the room is assigned and to his room-mate. Neither transfers nor exchanges are allowed. For any violation of this rule, each student taking part in the transaction will forfeit his room for the year, and will not be allowed to room in the College dormitories during the remainder of his course.

The time for which the rooms are rented begins on the Thursday before the opening of the College year and ends on the Saturday after Commencement. However, rooms in College Hall and in Wheeler Hall, with the exception of those occupied by Seniors, are rented with the understanding that they are to be vacated on the Friday preceding Commencement for the use of the alumni.

The occupants of a room in the College buildings will be held responsible for any disorder or damage occurring therein.

Students leaving College at the end of the year, as well as those

who are to change from one room to another, or from a College room to a private house or to a fraternity house, must remove all furniture and other property from their rooms on or before the Monday after Commencement. Furniture not thus removed will be removed by the College authorities and stored at the owner's expense and risk.

PRICES OF COLLEGE ROOMS FOR 1906–1907

In each case the price is for the whole room for the year. For a description of the dormitories see above.

Diagrams giving the location of rooms or suites of rooms, with dimensions, number of occupants allowed, and price, will be sent upon application to the Registrar.

FOR ONE OCCUPANT

$30. Elm, No. 11; Hallgarten, Nos. 18, 30, 31, 32, 33.

$36. Hallgarten, No. 24.

$40. Elm, No. 12; Fayerweather, No. 36; Hallgarten, Nos. 1, 2, 13, 28; Hubbard, No. 14.

$45. Elm, Nos. 8, 13.

$50. College, Nos. 12, 26; Crosby, No. 23; Fayerweather, Nos. 24, 29; Hallgarten, Nos. 3, 4, 5, 6, 7, 8, 27, 29; Hubbard, No. 15; New Hubbard, Nos. 22, 27, 28; Richardson, No. 22; Sanborn, Nos. 25, 27.

$55. College, Nos. 1, 9.

$56. Reed, No. 20; Thornton, No. 3.

$60. College, Nos. 13, 27; New Hubbard, Nos. 23, 26; Richardson, No. 13; Sanborn, Nos. A, 26, 28; Thornton, No. 4; Wheeler, Nos. 51, 63.

$64. Thornton, No. 7 a.

$65. College, No. 23; New Hubbard, Nos. 7, 14, 21; Wheeler, Nos. 53, 54, 58, 60, 61.

$70. Fayerweather, Nos. 39, 40; Hubbard, Nos. 1, 3; Proctor, No. 8; Sanborn, No. 29; Thornton, No. 5; Wheeler, Nos. 7, 8, 9, 10, 56.

$75. Fayerweather, Nos. 45, 46, 51, 52; Wheeler, Nos. 17, 18, 32, 33, 34, 35, 49, 50.

$80. Fayerweather, Nos. 3, 4, 9, 10, 15, 16; Reed, No. 5; Wheeler, Nos. 25, 42.

$85. College, Nos. 10, 24; Fayerweather, Nos. 2, 38.
$90. College, Nos. 11, 25; Fayerweather, No. 41; Proctor, No. 4.
$95. Fayerweather, Nos. 47, 53.
$100. Fayerweather, Nos. 5, 11, 17; Richardson, No. 28.
$110. Richardson, Nos. 10, 27.
$120. College, Nos. 14, 28; Richardson, No. 18; Wheeler, Nos. 2, 15, 23, 27, 40, 44.
$130. Richardson, Nos. 9, 19.

FOR TWO OCCUPANTS

$80. Bartlett, No. 4; Fayerweather, Nos. 33, 34; Hallgarten, Nos. 19, 20, 21, 22; Hubbard, No. 15.
$90. Elm, Nos. 4, 5, 9; Hallgarten, No. 23; Reed, Nos. 6, 8.
$95. Reed, No. 4.
$96. Hallgarten, Nos. 9, 11, 15, 17.
$100. Bartlett, No. 1; College, No. 8; Elm, Nos. 1, 10; Fayerweather, No. 35; Hallgarten, Nos. 10, 12, 14, 16, 25; Reed, Nos. 10, 12, 14, 30; Thornton, Nos. 20, 22; Wentworth, Nos. 4, 20, 22.
$102. Reed, No. 29.
$104. Thornton, No. 12; Wentworth, No. 12.
$105. Reed, Nos. 3, 11, 15.
$106. Reed, Nos. 31, 32.
$110. Bartlett, No. 3; College, No. 22; Elm, Nos. 2, 7; Hallgarten, No. 26; Reed, Nos. 7, 9, 13, 27, 28, 33, 34, 35, 36; Sanborn, Nos. 10, 18; Thornton, Nos. 7 b, 18; Wentworth, Nos. 2, 5, 18.
$112. Thornton, Nos. 17, 19, 21, 23, 24; Wentworth, Nos. 1, 3, 7, 11, 17, 19, 21, 23, 24.
$114. Reed, No. 24; Thornton, No. 11.
$116. Reed, No. 18.
$120. Bartlett, No. 2; Crosby, No. 17; Elm, No. 6; Fayerweather, Nos. 1, 19, 37; Hubbard, No. 9; New Hubbard, Nos. 24, 25; Reed, Nos. 2, 22; Sanborn, Nos. 17, 19, 21, 23; Thornton, Nos. 10, 13, 15; Wentworth, Nos. 9, 10, 13, 15.
$122. Reed, Nos. 25, 26.
$124. Reed, No. 21; Thornton, Nos. 1, 2, 8; Wentworth, No. 8.
$130. Fayerweather, Nos. 6, 7, 13, 20, 21, 23, 28, 42, 43, 49; Hub-

bard, No. 10; New Hubbard, Nos. 3, 4, 10, 11, 17, 18; Reed, No. 23; Richardson, Nos. 1, 2, 23, 24; Sanborn, Nos. 2, 9, 20, 22, 24; Thornton, No. 9.

$132. Reed, No. 19; Thornton, No. 16; Wentworth, No. 16.

$140. Crosby, Nos. 16, 22; Fayerweather, Nos. 12, 18, 25, 26, 30, 31, 48, 54; Hubbard, Nos. 12–13–16; Reed, Nos. 1, 16, 17; Sanborn, Nos. 3, 5, 7, 11, 13, 15; Wheeler, Nos. 6, 11, 62.

$150. Fayerweather, No. 22; Hubbard, Nos. 4, 5, 15; Richardson, Nos. 5, 6, 14, 15; Sanborn, Nos. 1, 4, 6, 8, 12, 14, 16; Wheeler, Nos. 19, 31, 36, 48, 52, 59.

$160. College, No. 7; Crosby, Nos. 1, 14, 19; Fayerweather, Nos. 8, 14, 27, 32, 44, 50; Hubbard, No. 7; New Hubbard, Nos. 1, 2, 5, 6, 8, 9, 12, 13, 15, 16, 19, 20; Proctor, Nos. 1, 5; Wheeler, Nos. 3, 14, 55.

$170. College, No. 21; Crosby, Nos. 3, 9; Hubbard, No. 2; Wheeler, Nos. 22, 28, 39, 45.

$180. College, Nos. 2, 4, 5, 16; Crosby, Nos. 2, 11, 15, 18; Proctor, Nos. 2–3; Richardson, No. 4; Wheeler, Nos. 1, 16, 24, 26, 41, 43, 57.

$190. College, Nos. 18, 19; Crosby, No. 4.

$200. College, Nos. 6, 20; Crosby, Nos. 10, 21; Proctor, Nos. 6–7; Richardson, No. 3.

$210. Richardson, No. 30.

$220. College, No. 3; Crosby, Nos. 8, 13, 20; Richardson, Nos. 25, 26, 29.

$240. Crosby, No. 12; Hubbard, Nos. 6–8.

$250. College, No. 17; Richardson, Nos. 7, 8, 12, 16, 17; Wheeler, Nos. 5, 30, 47.

$260. Richardson, Nos. 11, 20; Wheeler, Nos. 4, 12, 20, 37.

$270. Wheeler, Nos. 13, 29, 46.

$280. Richardson, No. 21; Wheeler, Nos. 21, 38.

FOR THREE OCCUPANTS

$120. Hallgarten, No. 22.

$135. Reed, Nos. 33, 34.

$162. Reed, No. 15.

$165. Reed, No. 23.

$168. Reed, No. 19.

$220. Fayerweather, Nos. 41–42.
$230. Fayerweather, Nos. 5–6.
$235. Fayerweather, Nos. 47–48, 53–54.
$240. Fayerweather, Nos. 11–12, 17–18; Proctor, Nos. 2–3.
$270. Crosby, Nos. 5, 8; Proctor, Nos. 6–7.
$300. Crosby, No. 6; Hubbard, Nos. 6–8.
$330. College, No. 17.

Electric lights, 16 candle-power, including lamps, are furnished at $7 a year per lamp.

COLLEGE BILLS

Each student is charged one hundred dollars for tuition. A further charge of twenty-five dollars is made for certain general privileges, including the use of Library, membership in College Hall, and the various advantages growing out of the increase of the College plant.

The minimum amount of tuition required for a degree is $400, whether a student takes the necessary number of hours in four years or less; but any student may take courses allowed by the Faculty in excess of the number required for a degree without extra charge.

The College bills of each year are to be paid in four installments: Tuition, in equal semi-annual payments on the first day of October and of March, in each year; room-rent, in semi-annual payments on the first day of December and of May, in each year. By "tuition" is meant the first two items under expenses given in this catalogue, or $125.00; by "room rent" is meant cost of room, electric lights, damages to room, and everything pertaining to the occupancy of a room. Room-rent in the College dormitories is determined by the choice of rooms, heat, care, etc.

Any delay in payment beyond ten days from these dates, without excuse from the Dean, will subject the student to loss of standing. Any students failing to make payment within this time will be entered upon the books of the Treasurer as delinquents, and will be so reported to the Dean, and notification of the delinquency will be given to parents or guardians. Students will not be allowed to take the final examination of the year till all College bills have been settled.

Students on entering College must pay tuition for the first semester before matriculation.

Students electing Laboratory courses must pay the fee to the College Treasurer before entering the course, and show receipt to Instructor at the first exercise.

A graduation fee of eight dollars is charged all students taking the bachelor's degree.

No student will be dismissed from College on request unless he shall have paid all his College bills, including the current semester; nor shall any student be entitled to a degree until all his College bills are discharged.

Entering students who have been granted scholarship aid will be credited with $20 on their College bill of the first semester, leaving $42.50 balance to be paid before matriculation; if the scholarship of such student, to be determined at the end of the first semester, entitles him to a larger credit, allowance will be made upon the College bill of the second semester.

Students receiving scholarship aid to the amount of $40 will pay $42.50 each semester; those receiving $50 will pay $37.50; those receiving $60 will pay $32.50; those receiving $70 will pay $27.50. All students not receiving scholarship aid will pay $62.50 each semester.

ESTIMATE OF EXPENSES

Tuition	$100.00		$100.00
College Expenses	25.00		25.00
Text-books	10.00	to	30.00
Laboratory Fees (if courses elected)	6.00	to	15.00
Room-Rent and lights	35.00	to	150.00
Board from $3.00 to $5.00 a week	108.00	to	180.00
Washing	10.00	to	30.00
	$294.00	to	$530.00

Expenses such as furniture, fraternity fees, class-taxes, travelling expenses, etc., vary according to circumstances, and with the character and habits of the individual, and are not included in the above estimate.

No one is advised to attempt a college education until he can assure himself, through the aid of friends, or through his own previous earnings, of a sufficient amount to meet the expenses of the first year. The opportunities for self-help increase during one's college course; it is very rarely the case that one may expect to secure such employment at the beginning as will enable him to meet his expenses.

SCHOLARSHIPS

THE HENRY ELIJAH PARKER FELLOWSHIP

This Fellowship is based upon a fund bequeathed to Dartmouth College by Professor Parker who was Professor of the Latin Language and Literature in Dartmouth College from 1866 to 1896, the last four years as Professor Emeritus.

The value of the fellowship is $500 a year, and may be held for two years. The holder of the fellowship shall be a graduate of not more than one year's standing, recommended by the Faculty. If judged advisable by the Faculty, he may be allowed a year for special preparation before entering upon the duties of his fellowship or receiving the income attached to it. During the time in which he is upon the fellowship he shall pursue advanced studies, not professional, subject to the approval of the Faculty. He shall also regard himself as committed to an engagement as a teacher in the College for the year after his fellowship expires, in case the College requires his services, at the usual compensation for the grade of his appointment.

RESIDENT GRADUATE SCHOLARSHIPS

Twelve scholarships enumerated below, yielding two hundred dollars each for one year, are open to graduates of the College who wish to continue their studies in residence. These scholarships are designed particularly for those who intend to teach, but are not limited to those who have this end in view, unless so specified.

A graduate student receiving a scholarship may have the tuition fee remitted in return for service rendered the department in which he is doing his work, or in return for clerical service in one of the College offices.

The George E. Chamberlain Scholarship $5000
given by Mrs. Addie D. McAlpine of New York City.

The Betsey R. Lang Scholarship 5000
given by Mrs. Betsey R. Lang of South Boston, Mass.

The Ann L. Paige Scholarship 5000
given by bequest of John C. Paige of Boston, Mass.

The Smyth Scholarship Fund 5000
from Estate of Frederick Smyth of Manchester, N. H., applicable only to a New Hampshire student.

Two scholarships drawn from the Moor's Charity Fund and applied by designation of the Trustees of the Fund to graduate students assigned to instruction in the Hanover High School.

Six scholarships drawn from the general fund, open only to those who intend to teach.

THE SCHOLARSHIP SYSTEM BASED ON BENEFICIARY AID

For Scholarship honor, irrespective of beneficiary aid, see page 203.

Scholarships, in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a college education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

While scholarship aid is based upon pecuniary need, the amount of this aid above forty dollars is determined by actual proficiency in scholarship, taken in consideration with faithfulness in attendance and study.

The system of scholarships based upon beneficiary aid will follow the grades which determine the standing of a student in College, see page 156. Beneficiary aid to the value of $40 will be given for grade D, but will not be given below that grade except in cases of marked faithfulness in attendance and study. Scholarship allowance begins with grade C; grade C entitles the recipient to $50, grade B to $60, grade A to $70.

See special provision for New Hampshire students under "Second College Grant Scholarships," page 182.

The following rules govern the bestowal of beneficiary aid, and apply to all undergraduate scholarships:

(1) All applications must be made on blanks furnished by the Dean, which require the signatures of parties concerned and testimonials in respect to character and attainments.

(2) No student who is not in full standing or who is on probation shall receive beneficiary aid or a scholarship.

(3) In addition to the restrictions which may be imposed by the donors of scholarships, the conditions of careful economy in personal expenses and of abstinence from intoxicating liquors are imposed by the College.

(4) Applications for the renewal of beneficiary aid and scholarship from year to year must be made out on blanks furnished at the Dean's office, and must be filed at his office by June 1; each application must contain a complete statement of income and expenditure during the year preceding.

(5) The value of the scholarship in addition to the beneficiary aid will be determined semester by semester according to the rank of the previous semester. In Freshman year the rank of the first semester will determine the amount of scholarship for that year.

(6) Students, whose records are incomplete, must pay their College bills on the basis of beneficiary aid only; when the work of the previous semester is completed, credit will be given according to standing.

SCHOLARSHIPS

SECOND COLLEGE GRANT SCHOLARSHIPS. — Owing to the recent increase in the Second College Grant Fund, the College is able to advance the scholarship allowance to New Hampshire students to the following schedule: rank of 60 gives $60; 70 gives $70; 80 gives $80; and 90 gives $90. This increase in scholarship will apply to students entering College in 1907. The original Second College Grant was given by the State of New Hampshire on June 18, 1807.

STATE SCHOLARSHIPS. — These scholarships, open only to New Hampshire students, are derived from the income of the fund ($10,000) appropriated by the State of New Hampshire in 1883.

THE KINGMAN SCHOLARSHIPS. — This fund, amounting to $11,000, was given by Jeremiah Kingman of Barrington, New Hampshire. "In applying the income annually of one thousand dollars, the preference shall be given to some student from the town of Strafford; and in applying the income of the other ten thousand dollars, preference shall be given to one student from each of the ten counties in the State of New Hampshire."

SCHOLARSHIPS ON THE JOHN S. JENNESS FOUNDATION. — This foundation, amounting to $10,000, was given by Mrs. Betsey Whitehouse of Pembroke, New Hampshire. "A worthy and needy appli-

cant from each of the ten counties of the State of New Hampshire shall receive, by preference, the income of one of these scholarships."

THE BENNETT TYLER SCHOLARSHIPS. — Representing funds to the value of $14,000, collected by President Tyler in 1823-24, "For the education of young men studying for the Gospel ministry."

THE COUNTY CONFERENCE SCHOLARSHIPS. — Representing funds to the value of $8000, available to students studying for the ministry, preferably from the county contributing.

THE CLARK SCHOLARSHIPS. — Based on the fund of $5000 given by Mrs. Mary Clark of Portsmouth, New Hampshire, in 1833, "Devoted to students studying for the ministry."

THE CHARLES HOWE WOODBURY SCHOLARSHIPS. — Representing the sum of $5000, given by Mrs. Frances E. Woodbury of New York City. "That the sum of $5000 be divided into parts to found two scholarships, the income of which is to be given to two students of the Senior class who are intending to make law a profession, who have shown by previous college work special attainment and fitness for the study of law."

THE RICHARD FOSTER SCHOLARSHIP. — Representing the sum of $3000, given by Sarah B. Foster of Washington, D. C. "The income to be assigned to a student of the Senior class who has shown special attainment and fitness for the study of theology."

THE HAVEN FUND FOR SCHOLARSHIPS.— Based on a fund of $9000, given by bequest of Eliza A. Haven of Portsmouth, N. H., to establish six scholarships.

THE EPHRAIM E. HOWARD SCHOLARSHIPS. — Based on a fund given by James T. Howard, of St. Johnsbury, Vt. By the provisions of the donor not available at present.

THE HENRY H. LADD SCHOLARSHIPS. — Representing the sum of $5000, given by Henry H. Ladd of Portsmouth, N. H., to establish five scholarships.

SCHOLARSHIPS ON THE LUKE WOOD FUND. — Based on a fund of $5000, given by bequest of Martha W. Brown of Hartford, Conn.

Separate scholarships as follows :

The R. E. Avery Scholarship	$2000
given by bequest of Mrs. R. E. Avery of Brooklyn, N. Y.	
The Bouton Scholarship	1500
given by the family of Nathaniel Bouton, D.D., of Concord, N. H.	
The Mary Clark Scholarship	2000
given by bequest of Mrs. Mary Clark of Portsmouth, N. H.	
The Stephen Wells Clarke Scholarship	2000
given by George Kuhn Clarke of Boston, Mass.	

The Emily Wheelock Hill Scholarship $2500
given by Caroline Wheelock Hill of Wilkinsonville, Mass.
The Henry G. Jesup Scholarship 1200
given by Professor Henry G. Jesup, Hanover, N. H.
The David Jewett Scholarship 2000
given by W. R. and D. B. Jewett
The Sarah Reid McMurphy,
The Henry James McMurphy,
The Abby Frances McMurphy Scholarships 5000
given by bequest of Mrs. Sarah R. McMurphy of Derry, N. H.
The Shurtleff Scholarship 1500
given by Mrs. Anna Pope Emerson of Hanover, N. H.
The Dr. Chase Wiggin Scholarship 2400
given by Dr. Chase Wiggin of Providence, R. I.
By the provisions of the donor two-thirds of the income is awarded.
The "Class of 1876" Memorial Fund 2500
given at their 25th reunion
The "Class of 1877" Scholarship 2525
given at their 25th reunion (incomplete)

Separate scholarships of the value of $1000 each:

The Aiken Scholarship given by Jonas B. Aiken of Franklin, N. H.
The William Lawrence Baker Scholarship given by Mrs. Caroline A. Lawrence of Winsted, Conn.
The George W. Benson Scholarship given by Mrs. Maria T. Benson of Lawrence, Mass.
The Richard Boylston Scholarship given by the family of Richard Boylston of Amherst, N. H.
The Joseph P. Brooks Scholarship given by Joseph P. Brooks of Chicago.
The Emily Clark Brown Scholarship given by Edward J. Brown, M.D., of Minneapolis, Minn.
The Burleigh Scholarship given by George W. Burleigh of Great Falls, N. H.
The Samuel M. Burnside Scholarship, bequest of Harriet P. F. Burnside of Worcester, Mass.
The Carr Scholarship given by William Carr of Newport, N. H.
The Cilley Scholarship given by Jacob G. Cilley of Manchester, N. H.
The Lizzie C. Converse Scholarship given by Miss Sarah E. Converse of Burlington, Vt.
The Cushing Scholarship given by G. W. B. Cushing of New York City.
The Dodge Scholarship given by William E. Dodge of New York City.
The Edgell Scholarship given by George S. Edgell of New York City.
The John M. Ellis Scholarship given by Mrs. Josephine M. Ellis of Milford, N. H.
The Horace Fairbanks Scholarship given by Horace Fairbanks of St. Johnsbury, Vt.

The Thaddeus Fairbanks Scholarship given by Thaddeus Fairbanks of St. Johnsbury, Vt.

The Fairfield Scholarship given by Josiah H. Fairfield of Hudson, N. Y.

The Fogg Scholarship given by William H. Fogg of New York City.

The Gookin Scholarship given by Warren D. Gookin of New York City.

The Gordon Scholarships (two) given by Nathaniel Gordon of Exeter, N. H.

The Greene Scholarship given by William H. Greene of Buffalo, N. Y.

The Grimes Scholarship given by James W. Grimes, LL.D., of Burlington, Ia.

The Mrs. James W. Grimes Scholarship given by James W. Grimes, LL.D., of Burlington, Ia.

The Mary Harris Scholarship given by Mrs. Mary Harris of Manchester, N. H.

The Tracy H. Harris Scholarship given by Tracy H. Harris of New York City.

The Mrs. Adaline Hartshorn Scholarship given by Mrs. Adaline Hartshorn of Manchester, N. H. (awarded preferably to sons of missionaries).

The Hitchcock Scholarship given by Hiram Hitchcock of Hanover, N. H.

The Hunt Scholarship given by Seth B. Hunt of New York City.

The Hutchinson Scholarship given by John B. Hutchinson of New York City.

The Leonard Jewett Scholarship given by Rev. Leonard Jewett of Hollis, N. H.

The Jordan Scholarship, given by Chester B. Jordan of Lancaster, N. H.

The Kendrick Scholarship given by Professor Henry I. Kendrick of West Point, N. Y.

The Kittredge Scholarship given by Moses Kittredge of St. Johnsbury, Vt.

The Knight Scholarship given by Miss C. Knight of Rochester, N. H.

The Mary Langdon Scholarship given by William T. Savage, D.D., of Godfrey, Ill.

The Lawrence Scholarship given by Aaron Lawrence of Amherst, N. H.

The Lue Lawrence Scholarship given by Miss Sarah Lucretia Lawrence of Amherst, N H.

The Lockwood Scholarship given by Legrand Lockwood of New York City.

The Mary H. Lord Scholarship given by Mrs. Mary H. Lord of Andover, Mass.

The William G. Means Scholarships (two) given by William G. Means of Boston, Mass.

The Morton Scholarship given by Levi P. Morton of New York City.

The Daniel O. Morton Scholarship given by Levi P. Morton of New York City.

The Nesmith Scholarship given by George W. Nesmith of Franklin, N. H.

The Daniel Nettleton Scholarship given by Fred H. Nettleton of St. Paul, Minn.

The William W. Niles Scholarship given by William W. Niles of New York City.

The Albert Onion Scholarship given by Mrs. Abigail W. Onion of Chester, Vt.

The Parker Scholarship, Memorial of Edith Florence Parker, given by Joel Parker, LL.D., of Cambridge, Mass.

The Peaslee Scholarship given by Professor Edmund R. Peaslee, M.D., LL.D., of New York City.

The Frederick C. Perry Scholarship, bequest of Henrietta Perry.

The William Rand Scholarship, from Estate of William Rand of Rochester, N. H.

The Richards Scholarship given by Dexter Richards of Newport, N. H.

The Joel Richardson Scholarship given by James B. Richardson, LL.D., of Boston, Mass.

The John Jones Sargent Scholarship given by Jonathan E. Sargent, LL.D., of Concord, N. H.

The David A. Simmons Scholarship given by David A. Simmons of Roxbury, Mass.

The Stanton Scholarship given by Samuel Stanton of London, Eng.

The Asa Stevens Scholarship given by Sarah J. Stevens of Boston, Mass.

The Stephen N. Stockwell Scholarship given by Stephen Stockwell of Boston, Mass.

The Stone Scholarship given by Mrs. Benjamin P. Stone of Concord, N. H.

The Samuel Swan Scholarship given by Mrs. Elizabeth S. Swan of Peterborough, N. H.

The Janet Swan Scholarship given by Miss Elizabeth S. Swan of Peterborough, N. H.

The Tenney Scholarship given by William Tenney of Hanover, N. H.

The William C. Todd Scholarship given by William C. Todd of Atkinson, N. H.

The Trussell Scholarship given by J. Trussell of Canaan, N. H.

The Twombly Scholarship given by Horatio N. Twombly of New York City.

The John S. Wallace Scholarship given by Mrs. Celia Whipple Wallace of Chicago.

The Mina H. Warren Scholarship given by Kenneth Archibald, '02, and Cecil Archibald, '05.

The Wheeler Scholarships (two) given by David E. Wheeler of New York City.

The Thomas Whipple Scholarship given by Mrs. Celia Whipple Wallace of Chicago.

The Mrs. Betsey Whitehouse Scholarship given by Mrs. Betsey Whitehouse of Pembroke, N. H.

The John P. Williams Scholarship given by Mrs. Abigail W. Onion of Chester, Vt.

The George Frederic Wingate Scholarship given by Isabel C. Wingate of Exeter, N. H.

The Dutton Woods Scholarship given by Miss Maria Woods of Concord, N. H.

The Woodward Scholarship given by Dr. Ebenezer Woodward of Quincy, Mass.

ENTRANCE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four entrance scholarships of the value of $100 each will be assigned to those members of each incoming class who enter by examination with a rank of at least grade B. These scholarships will be assigned in order of rank.

The examination for these scholarships must be taken at the College or at places specified in the catalogue at the June examinations. This examination cannot be divided between preliminaries and finals, nor between the June and September examinations.

COLLEGE SCHOLARSHIPS

(Applicable to those entitled to beneficiary aid.)

Four scholarships of the value of $100 each will be given, one to each class, to that student who attains the highest standing for the year, provided that standing is above 90.

Should any class fail to meet the requirement for this scholarship, it will be assigned to the highest ranking student in the other classes who is a candidate and has not already received one of these scholarships.

These scholarships will be announced on July 20 of each year, and the amount of such scholarship in excess of credit allowed during the year on any other scholarship will be paid at that time.

LOAN FUNDS

The John H. Pearson Fund

The Trustees of the John H. Pearson Fund have given to the Trustees of Dartmouth College a certain sum, to be used as a loan fund for the benefit of New Hampshire students who are in Dartmouth College. It has been assumed by them that there are students who would prefer to receive aid through loans *rather than through scholarships.*

Under the terms of this loan, a student who is in pecuniary need, in place of beneficiary aid, may give his note, subject to the approval

of his father, though not calling for his endorsement if the student is a minor. The note shall not bear interest while the student is in College. If extended for four years after graduation it shall bear interest at four per cent; if extended beyond four years it shall bear interest at six per cent. If a student leaves College without graduation, interest shall begin at once at six per cent.

The College Fund

A similar fund is available (within the limit of $3000) under like conditions for students from *outside of* New Hampshire.

The rules governing the granting of a loan are the same as those governing the bestowal of beneficiary aid.

Some additional aid is furnished in the way of compensation to those students who are appointed by the Dean as monitors and by the Librarian as assistant librarians.

PRIZES

I. ORATORICAL PRIZES.

1. *The Benjamin F. Barge Prize.* Through the recent gift of $2,500 by the late BENJAMIN F. BARGE of Mauch Chunk, Pennsylvania, a graduate of Yale, but a member for one year of the Class of '57, Dartmouth, a *gold medal* of the value of $100, is to be awarded annually "to that member of the Senior Class in any collegiate department or course, who, in competition therefor, shall write and pronounce in public an English oration in the best manner."

2. *Class of 1866 Prizes.* Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by WALDEMAR OTIS, of New York City, in the name of the CLASS of 1866, are offered to the Junior and Sophomore classes for excellence in Original Orations, to be contested for by two students from each of these classes.

3. *The Rollins Prizes.* The sum of *one hundred* dollars, annually contributed by E. W. and F. W. ROLLINS, is awarded in three prizes of *forty*, *thirty-five*, and *twenty-five* dollars respectively, for excellence in Declamation, to be contested for by two students from each of the three lower classes in the College.

4. *The Smith Prizes.* Two prizes, of *thirty* and *twenty* dollars respectively, given by Professor JUSTIN H. SMITH, are offered to the Senior Class for excellence in Extemporaneous Oratory, to be contested for by four students.

II. RHETORICAL PRIZES.

1. *The Grimes Prizes.* Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by JAMES W. GRIMES, LL.D., of Iowa, are offered to the Senior Class for excellence in English Composition.

2. *The Lockwood Prizes.* Two prizes, of *twelve* and *eight* dollars respectively, given by LEGRAND LOCKWOOD, of New York, are offered to the Junior Class for excellence in English Composition.

3. *Pacific Coast Alumni Association Prize.* A prize of *fifteen* dollars, given by the Dartmouth Alumni Association of the Pacific Coast, is offered to the Sophomore Class for the best essay on a subject in American Literature.

4. *Note-book Prizes.* Three prizes of *thirty*, *twenty*, and *ten* dollars respectively, are offered by an alumnus for the best note-books submitted by Seniors or Juniors during the academic year 1906–1907, on any English course offered in that year.

III. LATIN PRIZES. Two prizes, of *twelve* and *eight* dollars respectively, established by the CLASS of 1846, are offered to the members of the Junior Class who shall maintain the best positions, and pass the best examinations in the studies of the Latin Department, including Latin Composition.

IV. GREEK PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, established by the joint gift of EDWARD SPALDING, LL.D., and JOSIAH G. DAVIS, D.D., and named the ATHERTON PRIZES, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the prescribed and elective studies of the Greek Department.

V. MATHEMATICAL PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by GENERAL SYLVANUS THAYER, LL.D., of Braintree, Massachusetts, are offered to the members of the Sophomore Class for excellence in Analytic Geometry and the Differential and Integral Calculus.

VI. MODERN LANGUAGE PRIZE. By the will of THOMAS J. W. PRAY, M.D., of Dover, New Hampshire, the sum of *one thousand* dollars has been bequeathed to the College, "the income of which shall be given to the best scholar, throughout the entire collegiate course, in Modern Languages."

VII. PRIZE FOR GENERAL IMPROVEMENT. A prize of *seventy* dollars, given by JAMES W. GRIMES, LL.D., is annually awarded to "that member of the Senior or Graduating Class, who, in the judgment of the College Faculty, has made the most satisfactory progress during his College course, taking into consideration his preparation for the course when he entered."

VIII. MECHANICAL DRAWING. Two prizes, of *fifteen* and *ten* dollars respectively, are offered by CHARLES R. SPALDING, B.S., of Chicago, to the members of the Junior Class (Chandler Scientific Course), for the best sets of Mechanical Drawings, comprising Isometrical, Tinted, and Descriptive Geometry Drawings, and Surveying Plots.

IX. THE BENNETT PRIZE. Extract from the will of the late PHILO SHERMAN BENNETT of New Haven, Conn.: "I give and bequeath to William J. Bryan, of Lincoln, Neb., the sum of $10,000, in trust, however, to pay to twenty-five colleges or universities, to be selected by him, the sum of $400 each. Said sum of $400 to be invested by each college receiving the same and the annual proceeds used for a prize for the best essay discussing the principles of free government."

X. PHILOSOPHICAL PRIZE. The late JOSEPH STORY of Boston, Mass., has established an annual prize of *twenty-five* dollars "to be used for the publication of the best thesis on a subject in Philosophy, presented by any member of the Senior Class."

THE DANTE PRIZE. THE DANTE SOCIETY of America offers an annual prize of *one hundred* dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students and graduates of not more than three years' standing of any college or university in the United States. All inquiries concerning subjects for this year and regulations governing the competition should be addressed to the Secretary of the Society, Professor F. N. Robinson, Cambridge, Mass.

THE CECIL RHODES SCHOLARSHIP. Attention is called to the Cecil Rhodes Scholarship of the yearly value of £300 and tenable at any college in the University of Oxford for three consecutive academic years. The next appointment from New Hampshire will be made in 1907. Full particulars regarding conditions, etc., may be obtained on application to the Dean of Dartmouth College.

HONORS

COMMENCEMENT APPOINTMENTS

The speakers at Commencement are appointed by the Faculty on the basis of excellence in general scholarship for the entire College course; the first six in order of rank deliver orations at Commencement; all whose average rank is 85 or above will be indicated on the Commencement programme.

RUFUS CHOATE SCHOLARS

Students who attain a rank of 92 are designated "Rufus Choate Scholars." The designation is entirely a term of honor and carries with it no pecuniary allowance. The assignment is made at the close of each year, and the names of such scholars are to be announced by the Dean, and published in the annual catalogue.

HONORS

For excellence in special departments of study, three grades of honors are awarded by the Faculty, — Honorable Mention, Honors, and Special Honors.

HONORABLE MENTION

Honorable Mention is awarded in the following courses of study to students who obtain an average rank of 92 per cent in the courses specified below for each department:

GREEK, for Courses 5, 6, 7, and 8.
LATIN, for Courses 1, 2, 3, and 4.
ENGLISH, for Courses 1, 2, 3, and 4; or for Courses 1, 2, 9, and 10.
FRENCH, for any *four* of the following Courses: 1, 2, 3, 4, 5, 6, 11, 12.
GERMAN, for Courses 1, 2, 3, and 4; or for Courses 5, 6, 7, and 8.
MATHEMATICS, for Courses 1, 2, 7, and 8; or for Courses 3, 4, 9, and 10.

GRAPHICS, for Courses 1, 2, 3, and 4.
PHYSICS, for Courses 1, 2, 3, and 4.
CHEMISTRY, for Courses 2, 3, 4, and 5 or 7.
ZOÖLOGY, for courses in Biology 1, 2, and any two B courses in Zoölogy.
BOTANY, for courses in Biology, 1, 2, and any two B courses in Botany.
MINERALOGY and GEOLOGY, for any four courses.
HISTORY, for Courses 1 and 2, and any other two courses.
ECONOMICS, for Courses 1, 2, and any other two courses.
POLITICAL SCIENCE, for Courses 1, 3, 4, and 8.
POLITICAL SCIENCE, for Courses 3, 8, and Economics 1 and 2, and History 4 or 6.
PHILOSOPHY, for Courses 1, 2, 7, and 8.
MUSIC, for Courses 1, 2, 3, 4.

The names of students receiving Honorable Mention are printed in the annual catalogue published next after the award.

HONORS

Honors are awarded in the following departments of study to students who maintain an average rank of 92 per cent in the courses specified below for each department, and who in addition pass with credit a special examination at the close of the work:

GREEK, Courses 15, 16, and an average of three hours of Greek in each semester of Junior and Senior years, including Greek 17 and 18 and Archæology 3 or 4.
LATIN, one three-hour course in each semester of Junior and Senior years.
ENGLISH, Courses 1, 2, and 3, 4, or 9, 10, and 5, 6, 15, 16.
FRENCH, Courses 7, 8, or 11, 12, and any two of the following courses: 13, 14, 15, 16, 17, 18, 19, 20.
GERMAN, any three of Courses 7, 8, 9, 11, 12, 13, 14, and Courses 17, 18.
MATHEMATICS, Courses 7 and 8, or 9 and 10, and 11, 12, 13, 14, and 16.
GRAPHICS, all courses in Civil Engineering.
PHYSICS, Courses 3, 4, 5, and any one of Courses 6, 7, 8, 9, 10, 11, 12, 13.
CHEMISTRY, Courses 2, 3, 4, 5, 7, or 8 b, and either 6 or 8 a.
ZOÖLOGY, courses in Biology, 4, 7, 9, 10.
BOTANY, courses in Biology, 5, 6, and any two of the following courses: 7, 12, 13, 14.
MINERALOGY and GEOLOGY, for all courses.
HISTORY, four courses, not included in Honorable Mention.
SOCIOLOGY, all the undergraduate courses.
PHILOSOPHY, Courses 4, 5, 12, 13.

SPECIAL HONORS

Special Honors are awarded in the departments specified below to those who fulfil the conditions mentioned hereafter.

Any student who attains the average rank of 85 per cent in the studies of Junior year, or who attains 92 per cent in any department, with an average of at least 80 per cent in all departments, in the studies of Sophomore and Junior years, will be allowed to become a candidate for Special Honors in any department in which he has attained a rank of 90 per cent. Students who are thus entitled to become candidates for Special Honors, and who wish to do so, must give written notice to that effect to the Dean of the Faculty and to the officer in charge of the department in which Special Honors are sought, on or before the 15th of October of their Senior year, and must fulfil the following conditions:

(a) They must take the elective courses indicated below in the department in which they seek Special Honors, and must also pursue such additional courses of study and collateral reading or investigation as shall be prescribed. At the close of the year they must pass a special examination covering their work in the department, including the courses of collateral reading or investigation presented for Special Honors, and designed to test the range and accuracy of their work.

(b) They must also, if required, present theses satisfactory to a committee appointed by the Faculty, embodying the result of their special study. The subjects of theses shall be announced not later than March 1, and the theses must be handed to the Dean of the Faculty not later than June 10 of Senior year.

(c) They must maintain their general standard of scholarship, and if their average rank falls below 80, or if it falls below 70 in any one department in any Semester, they will be required to discontinue their work for Special Honors.

(d) No student will be allowed to become a candidate for Special Honors in more than one subject, without a special vote of the Faculty.

Special Honors may be sought in the following departments:

GREEK — Continuous work in Greek throughout the course, covering all Greek courses of Freshman year, two courses in Sophomore year, one of which must be a three-hour course, and an average of four hours a week in

Junior and Senior years. This work must include Greek 15, 16, 17, and 18, and Archæology 3 or 4. The candidate will do additional work, equivalent to at least one three-hour course for a year, to be assigned at the opening of Senior year; he will be examined on this work and on his general attainments in Greek at the end of Senior year. A thesis is required.

LATIN — Work in the elective courses of Junior and Senior years amounting to four hours a week; an examination on the work of some Latin author not covered in the course, and also a general examination upon Latin Literature, with more special reference to the period to which the particular author studied belonged. A thesis is required.

ANCIENT CLASSICS — Courses in Greek and Latin covering an average in each of three hours a week in Junior and Senior years. Special study in one of the two languages amounting to the work of a three-hour course for Senior year will be required, and the final examination will cover this study, as well as the general work in the two languages. A thesis in connection with the subject of special study may be required.

ENGLISH — Eight courses, with examinations on all courses of Junior and Senior years, and upon two authors outside the course, amounting to three hours for Senior year. A thesis will be required.

FRENCH — Any *six* of the following courses: 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. A thesis will be required.

GERMAN — Courses 13, 14, and any two of Courses 7, 8, 9, 11, 12, and any three of Courses 15, 16, 17, 18, 19, 20, 23–24, with collateral reading and study. A thesis will be required.

MATHEMATICS — All courses, and advanced work in Calculus, and its applications. A thesis may be required.

PHYSICS — Courses 1, 2, 3, 4, 5, and any three of Courses 6, 7, 8, 9, 10, 11, 12, 13, with the solution of some simple research problem described in a thesis.

CHEMISTRY — Courses 2, 3, 4, 5, 6, 7, 8 a, and 12, 17, 18, or corresponding courses. A thesis may be required.

ZOÖLOGY — Courses in Biology 1, 1 a, 2, 3, 4, 7, 9, 10, 16, and either 5 or 6, with special laboratory work and collateral reading amounting to a minimum of three hours per week for Senior year.

BOTANY — Courses in Biology, 1, 1 a, 2, 5, 6, 7, 12, 13, 14, and either Courses 3 or 4, with collateral reading and such additional work as may be indicated by the instructor, amounting to a minimum of three hours per week for Senior year.

HISTORY — At least eight courses with collateral reading and additional work, amounting to a minimum of three hours per week for Senior year. A thesis may be required.

ECONOMICS — Courses 1 and 2 and either 3 or 4, and three Senior courses, including either 13 or 14, collateral reading, and possibly a thesis in Senior year, upon which a special examination must be taken.

POLITICAL SCIENCE — Courses, 3, 4, 5, 6, with collateral reading and study amounting to three hours a week for Senior year.

PHILOSOPHY — Candidates must take at least eight courses, and do original, critical work in Greek philosophy, or in German philosophy. Thesis will be required.

Any student who has an average rank for his entire college course of 90 per cent, or who has received Honorable Mention in two departments and Honors in one department, or who has received Honorable Mention in one department and Special Honors in another, shall receive a degree *cum laude*.

Any student who has an average rank for his entire college course of 92 per cent, or who has received Honorable Mention and Honors in two departments, or who has received them in one department together with Special Honors in another, shall receive a degree *magna cum laude*.

Any student who has an average rank for his entire college course of 94 per cent, or who has received Honorable Mention and Honors in two departments, together with Special Honors in any department, shall receive a degree *summa cum laude*.

The names of recipients of Honors are printed on the Commencement programme and in the annual catalogue.

DEGREES

The degrees of Bachelor of Arts and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have duly completed the Classical and Chandler Scientific courses, respectively. For degrees with Honors, see page 196.

The degrees of Master of Arts and Master of Science will be conferred under the following conditions:

(1) The degree of Master of Arts will be conferred on Bachelors of Arts and Bachelors of Letters of the College of at least one year's standing who shall have pursued in residence at the College, or, provided the approval of the Faculty has been first obtained, in the graduate department of any other college or university, for one full year a course of graduate study approved by the Committee on Graduate Instruction as affording suitable preparation for that degree, and shall have completed and passed an examination on such course with high credit. A thesis is ordinarily required, but, on recommendation of the department in which the degree is sought, this requirement may be waived by the Committee on Graduate Instruction.

The instruction approved by the Committee on Graduate Instruction for the Master's Degree may consist of:

(a) Courses of instruction of advanced grade, twenty-four semester hours being ordinarily required to constitute a full year's work, at least twelve of which shall be in the major subject; or the work may be partly or wholly made up of —

(b) Research or special study carried on under the direction, or with the criticism and approval, of the head of the appropriate department.

The Master's Degree is deemed the appropriate reward for graduate students who have shown marked proficiency in liberal studies. In every case the program of work approved for candidates for that degree must form a consistent plan of study, and it ordinarily will be pursued

in more than one department. No work which is to be counted for any other advanced degree, except that of Doctor of Philosophy, will be approved as a constituent part of the course of study for the Master's Degree.

(2) The Degree of Master of Arts will also be conferred on Bachelors of Arts and Bachelors of Letters of the College of at least three years' standing who shall have pursued, although not in residence, an approved course of graduate study substantially equivalent in kind, grade, and amount to that prescribed for resident candidates for that degree, and shall have completed and passed an examination on such course of study with high credit, and presented a satisfactory thesis.

(3) The Degree of Master of Science will be conferred on Bachelors of Science of the College under the same conditions that are prescribed for the Degree of Master of Arts.

(4) A Bachelor of Arts or Bachelor of Letters of the College may become a candidate for the Degree of Master of Science, and a Bachelor of Science may become a candidate for the Degree of Master of Arts, upon special permission of the Committee on Graduate Instruction.

(5) Persons who have received the Bachelor's Degree in any other college whose requirements for the degree are equal to those of this College, may be recommended for the corresponding Master's Degree on the same conditions that are prescribed for graduates of this College, except that the specified course of study must be pursued in residence at this College, either during one full college year, or during sessions of the Summer School. In the latter case the student must complete at least fifteen semester hours in residence, but may do the remainder of the work for the degree *in absentia* under the direction of the department concerned.

(6) Resident candidates for the Master's Degree shall be charged the same tuition as undergraduates. They shall be charged also a fee of $10 for the diploma. Non-resident candidates for the same degree shall be charged a fee of $10 for registration, and of $25 for examination and verification of the thesis and for the Diploma.

The degree of Doctor of Philosophy is at present offered in only a few departments, and any one wishing to secure that degree after a course of study should apply to the Chairman of the Committee on Graduate Instruction.

SPECIAL REGULATIONS

REGISTRATION

1. Resident candidates for the Master's Degree must register at the office of the Dean on the first day of the college year. Non-resident candidates must notify the Dean in writing before the opening of the college year.

Every resident and non-resident candidate for the Master's Degree must furnish to the Dean, at the time of registration or enrollment, upon a blank furnished by him upon application:

(a) His name in full and present residence; (b) date and place of graduation, and the degree received; (c) present occupation, and (if to become a non-resident candidate) probable time available for graduate study during the ensuing year; (d) the degree sought; (e) the department or departments in which he desires to work while a candidate for that degree; (f) a careful description of his undergraduate courses, and of any additional reading, laboratory work, or teaching, which may fit him for his proposed graduate work, together with the extent of his ability to use other languages than English; (g) his probable subsequent career.

2. These registration papers will be referred to the Secretary of the Committee on Graduate Instruction, and, if the applicants prove to be duly qualified, will be transmitted to the heads of the appropriate departments, to prepare courses of study adapted to the requirements of each case. Such courses of study shall be filed in duplicate with the Committee on Graduate Instruction, and if approved by the Committee, copies of these courses of study will be transmitted by it to the several candidates.

3. Registration will not be deemed complete until the tuition of the first semester shall have been paid by resident candidates, and the registration fee of $10 by non-resident candidates. These payments are due within one week after the opening of the first semester.

THESIS

4. The approval of both subject and matter of the thesis rests with the Division of the Faculty under which the work is done.

5. The subject of the thesis must be announced to the Secretary of the Committee on Graduate Instruction by the instructor in charge of

the major work as early as the first of February of the college year in which the applicant expects to take the degree.

6. The thesis must be put into the hands of the Secretary of the Committee on Graduate Instruction as early as the first of June of that year, and in its final form, printed or legibly written according to a form prescribed by the College Librarian, must be filed at the Library at least three days before Commencement.

7. Every non-resident candidate must send a written report of the progress of his work to this Committee through the head of the department in which he is pursuing his studies, at least twice a year, in December and in June.

Any non-resident candidate who shall fail to make such report for a period of two years shall be deemed thereby to have ceased to be a candidate for the degree for which he was enrolled.

EXAMINATIONS

8. A candidate for the Master's Degree, whose thesis has been approved, may present himself for examination in his major subject at such time after June first of the year in which he shall be entitled to examination as shall be appointed by the instructor who has charge of his major subject, in consultation with the appropriate Division of the Faculty.

9. By special permission of the Committee on Graduate Instruction a candidate may present himself for examination before the presentation of his thesis. In this case the department may require a further examination on the subject matter of the thesis at the time of presentation. The deferred thesis must be presented within two years after the time of examination.

10. Notice of the time and place of all examinations for the Master's Degree shall be publicly posted by the Division Secretary. The examinations shall be conducted by the Division Faculty, and the result of their examination, together with their verdict upon the thesis, shall be certified by the Division Secretary to the Committee on Graduate Instruction.

11. The Committee on Graduate Instruction, together with the Division Faculties immediately concerned, shall make recommendations to the Faculty as to the acceptance or rejection of candidates for the Master's Degree.

PRIZES, HONORS, AND DEGREES AWARDED IN 1906

PRIZES

Grimes — English Composition — Seniors

First Prize — FRANCIS LANE CHILDS.
Second Prize — CRAWFORD MORRISON BISHOP.

Lockwood — English Composition — Juniors

First Prize — HARRY RANDOLPH BLYTHE.
Second Prize — CLIFFORD EATON NORRIS.

Pacific Coast Alumni Association — American Literature — Sophomores

LAWRENCE ADLER.

Note-Book Prizes — Seniors and Juniors

First Prize — RAY ALLISON SPENCER.
Second Prize — FRANCIS LANE CHILDS.
Third Prize — ERIC PHILBROOK KELLY.

Rollins — Oratory — Juniors, Sophomores, Freshmen

First Prize — JAMES BARRETT BROWN.
Second Prize — HAROLD WINSLOW JOYCE.
Third Prize — JAMES MILTON O'NEILL.

Smith — Extemporaneous Debate — Seniors

First Prize — MICHAEL STEPHEN O'BRIEN.
Second Prize — CLYDE DOUGLAS SOUTER.

Class of 1866 — Original Orations — Juniors, Sophomores

First Prize — JAMES BARRET BROWN.
Second Prize — JOHN ALEXANDER CLARK.

Barge Gold Medal — Original Orations — Seniors

MICHAEL STEPHEN O'BRIEN.

Class of 1846 — Latin — Juniors

First Prize — ARTHUR HOWLAND LEAVITT.
Second Prize — JOHN WILKES HAMMOND, JR.

Atherton — Greek — Juniors

First Prize — HOMER TAFT SIBLEY.
Second Prize — DWIGHT WILLARD HIESTAND.

Thayer — Mathematics — Sophomores

First Prize — FREDERICK HERMAN MUNKELT.
Second Prize — ARTHUR BRADLEY BARNES.

Pray — Modern Language — Seniors

French — FOSTER ERWIN GUYER.
German — FOSTER ERWIN GUYER.

Grimes — General Improvement — Seniors

JOSEPH CUSHING.

Spalding — Mechanical Drawing — Juniors (Scientific Course)

First Prize — HARRY MATT GRAY.
Second Prize — ROY MULLINS.

Story — Philosophy — Seniors

ALBERT GEORGE HEYHOE

HONORS

HENRY ELIJAH PARKER FELLOWSHIP

Class of 1905 — Chester Newell Moore.

RUFUS CHOATE SCHOLARS

SENIORS — Robert Irving Adriance, Howard James Chidley, Francis Lane Childs, Halsey Charles Edgerton, Thurlow Marshall Gordon, Albert George Heyhoe, Nathaniel Leveroni.

JUNIORS — Ernest Everett Just.

SOPHOMORES — Paul Mason Batchelder, Albert Richard Chandler.

FRESHMEN — None.

SPECIAL HONORS

SENIORS

ENGLISH — Crawford Morrison Bishop, Howard James Chidley, Francis Lane Childs.

FRENCH — Foster Erwin Guyer, Frank Howard Kelley.

PHILOSOPHY — Howard James Chidley, Albert George Heyhoe.

HONORS

SENIORS

ENGLISH — Howard James Chidley, William Bertram Twiss.

FRENCH — Foster Erwin Guyer, Frank Howard Kelley.

GERMAN — Crawford Morrison Bishop.

SOCIOLOGY — Albert George Heyhoe.

PHILOSOPHY — Howard James Chidley.

HONORABLE MENTION

SENIORS

ENGLISH — Crawford Morrison Bishop.
ASTRONOMY — John Wesley Cromwell, Jr.
ZOÖLOGY — Albert George Heyhoe.
BOTANY — Foster Erwin Guyer.
HISTORY — Robert Irving Adriance.
ECONOMICS — Charles King Benton, Halsey Charles Edgerton, Thurlow Marshall Gordon, Nathaniel Leveroni, Arthur Bond Meservey.
PHILOSOPHY — Howard James Chidley, Charles Alfred Pierce.

JUNIORS

FRENCH — Clarence George Filiau.
GRAPHICS — Harry Matt Gray.
BOTANY — Ray Allison Spencer.
HISTORY — Morris Kellogg Smith.
ECONOMICS — Robert Isaac Lyon, Ernest Hodgdon Trickey.

SOPHOMORES

GREEK — Albert Richard Chandler, Raymond Warren Sherburne.
LATIN — Joseph King Knight, Jr., Raymond Warren Sherburne.
FRENCH — Morton Lee Lewis.
GERMAN — Paul Mason Batchelder, John Adolph Detlefsen, Joseph King Knight, Jr., Charles Howard Walker.
MATHEMATICS — Raymond Robert Marsden, Frederick Herman Munkelt.
GRAPHICS — Harold Lewis English, Roger Frank Hill, Frederick Herman Munkelt, Alva Bruce Rutherford.
PHYSICS — Paul Mason Batchelder.
ZOÖLOGY — Francis Gilman Blake.

DEGREES CONFERRED IN COURSE

BACHELORS OF ARTS

†Adriance, Robert Irving
Bankart, George Norman
Barker, Thomas
‡Beetle, Ralph Dennison
Bell, William Thomas
*Bishop, Crawford Morrison
Blood, Robert McCutchins
Bodwell, William Mottimer
Bowlby, Noble Oscar
Brackett, Colborn Barrell
Brackett, Roy
Brooks, Addison Gott
Burtch, John Jay
Butterfield, Ray Evan
Carpenter, Robert Franklin
*Chidley, Howard James
*Childs, Francis Lane
Clark, Edward Everett
Coburn, Harry Warner, Jr.
Cogswell, Eliot Sanborn
Connell, Thomas Michael
Cooke, Randall Bradford
Cromwell, John Wesley, Jr.
Cutting, Raymond
Edgerton, Malcolm James
Erickson, Percy Elwood
Evans, Robie Mason
Felt, Paul Revere
Ford, Trall Edward
French, Charles Ward
French, Edward Sanborn
Gage, Jesse Witherspoon
Gardiner, William Henry, Jr.
Gibb, Oscar Edward
Goodwin, Reuben Albert
*Gordon, Thurlow Marshall
‡Guyer, Foster Erwin
Hartmann, Max
Hatch, Daniel Phillips
Herr, Edward Albert
†Heyhoe, Albert George
Howard, Charles Sumner
Hutchinson, Jonas
Jones, Fred Andros
Kelley, Arthur Olin
Kelley, Frank Howard
Kelly, Eric Philbrook
Kingsbury, John Howard
Kraft, Charles Herbert
Laton, George Peavey
Libby, Arthur Frederick
Loff, George
McIntire, Donald Cahoon
Marden, Edgar Avery
Marshall, John Knox, Jr.
†Meservey, Arthur Bond
Montgomery, Wilder Percival
Moore, William Herbert
Neal, Erlon Hugh
Page, William Ray
Patten, Harold Taylor
Paul, Philip Batcheller

* Summa cum laude. † Magna cum laude. ‡ Cum laude.

Pierce, Charles Alfred
Powers, Walter
Pratt, Elon Graham
Rainie, Herbert Williamson
Ransom, Daniel Parke
Redlon, Nathan Carroll
Redman, Edward Blanchard
Richardson, Robert Wallace
Ritchie, James John
Rix, John Burton
Rugg, Harold Goddard
Russell, Louis Webster
Scribner, Frederick Parker
Seager, George James
Sleeper, Finlay Page
Smith, Eugene Greeley
Smith, Ephraim John
Smith, Joseph Thomas
Souter, Clyde Douglas
Spencer, Bertrand Edwin
Stanton, Harold Bacon
St. Clair, Earle Jason
Tarr, Alphonso Remby
Terrien, George Dominick
Thompson, Ralph Joseph
Thrall, Henry Dutton
Torrey, Elbridge Chauncey
Twiss, William Bertram
Varick, Remsen
Wallace, Robert Burns
Walsh, Frederick William
Waring, Dwight Stowe
Webster, Merton Wells
Whittemore, Harvey Foss
Winship, Harold Carter

BACHELORS OF SCIENCE

Alley, George Augustus
Alling, Marshall Louis
Ayers, Augustine Haines
Benton, Charles King
Blatherwick, James Albert
Bourne, Charles Luther
Boynton, Herbert Leslie
Brock, Maynor Davis
Brown, Homer Francis
Brown, Thurmond
Buckbee, Neil Stanley
Burnie, Arthur Newell
Chapin, Arthur Wood
Chase, Joseph Theodore
Chase, Phillips Maurice
Chellis, Converse Alvah
Cheney, Henry Howard
Cochran, Albert Clarendon
Cragin, Arthur Mantor
Cummings, Herbert Wiley
Cushing, Joseph
Cushing, Stephen Salisbury
Denison, Roy Erskine
De Nyse, Percy Lott
Eastman, Frank Herman
Edgerton, Halsey Charles
Everett, Chester McKenzie
Fishback, Van Dusen
Fitts, Ralph Corydon
Fox, William Henry
Gray, Clarence Tebbetts
Griffin, James Thomas, Jr.
Higman, Harry Wentworth
Holmes, Percival Jerauld
Howe, Willis Dearborn
Keady, John Thomas
Kendall, Henry Sibley
Leveroni, Nathaniel

McGrail, William Phipps
McMore, Harry Allen
Macullar, Harvey Sumner
Main, David John
Martin, Leigh Shepard
Molina, Vicente
Morse, Frank Thomas
O'Brien, Michael Stephen
Owen, Roy Mansfield
Parker, Fred Foster
Perry, Clifford Omera
Russ, Charles Alonzo
Russell, Norman
Scott, Ralph Wentworth
Sickman, Guy Leonard
Smith, Harold Earle
Smith, Watson Burchard
Soule, Carlton Monson
Swasey, George Leroy
Thompson, Ernest Alvin
Tourtellott, Clarence William
Ward, Harold Edward
Wayman, Harry Purcell
Welch, Frederick William
Wells, Arthur Sethus
Wood, Raymond Collins
Wright, Robert Garfield

DOCTOR OF PHILOSOPHY

Lambert, Avery Eldorus, B.S. (1902)

MASTERS OF ARTS

Chase, Frederick, A.B. (1905)
Day, Edmund Ezra, B.S. (1905)
Farwell, Hermon Waldo, A.B. (1902)
Frost, Eliot Park, A.B. (1905)
Morrill, Milo True, A.B. (Carleton, 1899)
Smith, Harold Elno, A.B. (1903)
Putnam, George William, A.B. (1905)
Sylvester, Charles Bradford, A.B. (1905)
Woodbury, William Billings, A.B. (Bowdoin, 1900)

MASTER OF SCIENCE

Burnham, Kingsley Allen, B.S. (1903)

MASTERS OF COMMERCIAL SCIENCE

Atwood, Howard Deloz, B.S.
Merriam, James Robert, A.B.

CIVIL ENGINEERS

Adams, James Seth, B.S.
Conley, Walter Abbott, B.S.
Goodrich, Charles Francis, B.S.
Libby, Ralph Leonard, B.S.
Messer, Hope Richard, B.S.
Muchemore, Harrie Langdon, B.S.
Roby, Harrison George, B.S.
Shaw, William Thomas, B.S.
Smith, Leon Burdett, B.S.
Witham, Myron Ellis, B.S.
Woodward, Guy Eric, B.S.

DOCTORS OF MEDICINE

Bowler, John William
Bennett, Hamlin Perley, A.B.
Bullard, Edward Arthur
Chedel, Charles Brigham, A.B.
Craig, Willis Parker, B.L.
Farr, Irvin Harris
Foss, George Herbert
Hoyt, Park Rowe
McCorrison, Carl Copeland
Mathes, Roy Wentworth

HONORARY DEGREES

MASTERS OF ARTS

Florizel Charles Avery (1888)
Allen Hollis (LL.B. Harvard, 1893)
Winfield Scott Montgomery (1878)

DOCTOR OF SCIENCE

Warren Upham (1871)

DOCTORS OF DIVINITY

Gains Glenn Atkins (Ohio State University, 1888)
Allen Eastman Cross (Amherst, 1886)

DOCTOR OF LETTERS

Frank Pierce Hill (1876)

DOCTORS OF LAWS

John Adams Aiken (1874)
Andrew Dickson White (Yale, 1853)

THE AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

CALENDAR

1906

September 20 . . . . Year began — Thursday morning.
November 29 . . . . Thanksgiving Day — Holiday.

December 20 to January 3, 1907, Christmas recess.

1907

Jan'y 23 to Feb. 5 . . . Examinations for First Year Men.
April 3 to 17 . . . . . Easter recess for First Year Men.
April 24 . . . . . Second year ends.
June 10 to 22 . . . . Examinations for First Year Men.

OFFICE HOURS

DIRECTOR — Harlow S. Person — Room A, Tuck School, 9 to 10 A. M., Monday and Wednesday; 10 A. M. to 12 M., Tuesday and Thursday.

THE AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

FACULTY

WILLIAM JEWETT TUCKER, LL.D., *President.*

HARLOW STAFFORD PERSON, Ph.D., DIRECTOR, *and Assistant Professor of Commerce and Industry.*
(Commercial Geography, Commerce, and Technique of Industry.)

JAMES FAIRBANKS COLBY, A.M., LL.D., *Parker Professor of Law and Political Science.*
(Constitutional and International Law.)

JUSTIN HARVEY SMITH, A.M., *Professor of Modern History.*
(Modern History and Diplomacy.)

DAVID COLLIN WELLS, A.B., *Professor of Sociology.*
(Sociology and Labor Problems.)

FRANK HAIGH DIXON, Ph.D., *Professor of Economics.*
(Transportation and Corporations.)

GEORGE RAY WICKER, Ph.D., *Assistant Professor of Economics.*
(Labor.)

WARREN MILTON PERSONS, B.S., *Assistant Professor of Finance.*
(Banking and Insurance.)

WILLIAM THOMPSON ATWOOD, LL.B., *Instructor in Political Science.*
(Commercial Law.)

WILLIAM HENRY MURRAY, A.B., *Instructor in French, German, and Spanish.*
(French, German, and Spanish Composition and Conversation.)

WILLIAM RENSSELAER GRAY, B.L., M.C.S., *Instructor in Accounting and Commercial Mathematics.*
(Accounting and Commercial Mathematics.)

LECTURERS FOR THE YEAR

1906–1907

ALFRED LAWRENCE RIPLEY, A.M., Vice-President State National Bank, Boston, Mass. (1905–1906, 1907–1908.)
Stock and Money Markets.

JAMES LOGAN, General Manager United States Envelope Company, Worcester, Mass. (1905–1906, 1907–1908.)
Business Methods.

JOSEPH AREND DEBOER, A.M., President of the National Life Insurance Company, Montpelier, Vt.
Theory and Practice of Life Insurance.

THOMAS FRANCIS WOODLOCK, A.M., of S. N. Warren & Co., New York City. (1904–1905, 1906–1907.)
Investment Values.

JAMES SHIRLEY EATON, A.M., of Mackay & Co., New York City.
Railroad Methods and Administration.

CHARLES W. LAVERS, President and General Manager, The Shoe & Leather Mercantile Agency, Boston, Mass.
Mercantile Reporting and Rating.

MONTGOMERY ROLLINS, Author of *Government Bond Values, Laws Regulating the Investment of Bank Funds*, etc., Boston, Mass.
Investments.

EDWIN JULIUS BARTLETT, A.M., M.D., New Hampshire Professor of Chemistry, Dartmouth College.
Economic Chemistry.

WILLIAM PATTEN, Ph.D., Professor of Zoölogy, Dartmouth College.
Economic Biology.

GORDON FERRIE HULL, Ph. D., Appleton Professor of Physics, Dartmouth College.
Economic Physics.

SPECIAL LECTURES

In addition to the courses of lectures, single lectures by specialists are introduced from time to time.

STUDENTS

SECOND YEAR

Name	Residence	Room
Brackett, Roy, A.B.	*Limington, Me.*	23 S. Main St.
Brown, Thurmond, B.S.	*St. Louis, Mo.*	C. & G. House
Edgerton, Halsey Chase, B.S.	*Northfield, Vt.*	4 Wentworth St.
Howe, Willis Dearborn, B.S.	*Woodsville, N. H.*	Ford Block
*King, George Matthew	*Portsmouth, N. H.*	13 Hallgarten
Morse, Ransom Wesley	*Northampton, Mass.*	Ford Block
Tourtellott, Clarence William, B.S.	*Swampscott, Mass.*	14 W. Wheelock St.
*Webster, Leon Winfield, A.B.	*Hanover, N. H.*	4 Wentworth St.

FIRST YEAR

Ahern, William Joseph, Jr.	*Concord, N. H.*	6 Fayerweather
Andrews, Walter Raymond	*Newton Centre, Mass.*	1 Wheeler
Barker, Edward Bell	*Pittsfield, N. H.*	23 Crosby
Boyer, Francis Burleigh	*Somersworth, N. H.*	15 Sanborn
Brown, Allan	*Concord, Mass.*	14 Wheeler
Clough, Walter Hayden	*Lawrence, Mass.*	2 Elm
Coombs, Norman Charles	*Oak Park, Ill.*	C. & G. House
Cummings, Willard Howe	*Orizaba, Mexico*	4 Crosby
Dudley, Guy Earle	*Waterford, Me.*	12 Sanborn
Fields, Charles Weeks	*Bristol, N. H.*	19 Reed
Garby, William Frank	*Walpole, Mass.*	25 Wheeler
Gerry, Louis Cardell	*Hyde Park, Mass.*	K Σ House
Greenwood, Ivan Anderson	*Cleveland, O.*	Shurtleff House
Haley, Henry Thomas	*Roslindale, Mass.*	Dragon House
Hathaway, Charles Henry	*Malden, Mass.*	C. & G. House
Howard, George Henry	*Craftsbury, Vt.*	4 Hubbard
Hoyt, George Herbert	*Hyde Park, Mass.*	K Σ House
Jordan, John Harold	*Brighton, Mass.*	Dragon House
Kelley, Harry George	*Omaha, Neb.*	4 College
Lane, Henry Richardson	*Chicago, Ill.*	C. & G. House
Lyon, Robert Isaac	*Washington, D. C.*	12 Sanborn

* Special.

Martin, William Alonzo, Jr.	*Springfield, O.*	Shurtleff House
Minsch, William Joseph	*Worcester, Mass.*	19 Sanborn
Niles, Harold Louville	*Wellesley Farms, Mass.*	18 Crosby
Norris, Clifford Eaton	*Plympton, Mass.*	44 College St.
Richardson, Edward	*Wellesley Hills, Mass.*	K K K House
Richardson, Elwood Seward	*Oak Park, Ill.*	8 Sanborn
Romayne, Harrie Carlyle	*Penn Yan, N. Y.*	The Hanover Inn
Rowell, Frank Fulton	*Sunapee, N. H.*	10 Wentworth
Sprague, Leon Alfred	*Haverhill, Mass.*	7 College
Stevens, Albert Emery	*Lawrence, Mass.*	2 Wentworth
White, Warner Goodrich	*Buffalo, N. Y.*	34 Fayerweather
Winslow, Arthur Eugene	*Oakland, Me.*	21 Reed

THE AMOS TUCK SCHOOL

FOUNDATION

Under the terms of the Amos Tuck Endowment Fund, the gift by Mr. Edward Tuck of the Class of 1862, of the sum of three hundred thousand dollars as a memorial to his father, the Honorable Amos Tuck of the Class of 1835, and a Trustee of the College from 1857 to 1866, especial provision was made for the "establishment of additional professorships within the college proper or in graduate departments." In accordance with this provision of the endowment fund for additional instruction in undergraduate and graduate courses, and with the direct approval of the donor, the Trustees of Dartmouth College created the Amos Tuck School of Administration and Finance.

By a second gift of one hundred thousand dollars Mr. Tuck made provision for the erection and maintenance of a building for the uses of the School. This building was occupied in September, 1904.

AIM

It is the aim of the Tuck School to meet so far as possible the increasing demand of the business world for trained service. It aims to accomplish this by enabling a young man to start in business with the advantages of a trained mind, a scientific knowledge of modern business methods and conditions, and the foundation of an expert knowledge of those branches of certain businesses in which such a knowledge is required. It recognizes clearly its limitations. It does not presume to create the genius for executive position, or even the genius for business negotiation. It aims in this respect to assist the young man to discover for himself and gather together into an effective working force, such elements of business ability as he may possess. Neither does it attempt to teach the details of any man's business; these can be learned most quickly and effectively on the ground. Between these extremes, the impossibility on the one hand of creating the

genius for business, and the futility on the other hand of teaching the details of a particular employer's routine, there lies a wide field of possible instruction for the young man looking forward to a business career.

Industrial education may have five objectives. First, the training of efficient manual labor, — which is accomplished by trade schools. Second, the training of special office help, — which is taken care of by business colleges. Third, the development of expert labor in the field of applied sciences, — which is accomplished by the many efficient technological schools. Fourth, the training of expert labor in certain branches of highly developed businesses, represented by the accountant and statistician in railroad service, the exchange clerk in banking, and the actuary in insurance; and fifth, the development of labor so trained in the general principles of business and in a knowledge of modern business conditions and tendencies, as to enable employers to relieve themselves of a part of the responsibility of management. Primarily the fourth and fifth, and incidentally the second, are the objectives of the Tuck School in the training of its students.

That there is need for such training in the United States cannot be questioned. The business world complains that there is an insufficiency of young men entering business properly equipped. Trading companies and banking houses, for instance, have to secure foreign trained clerks for their foreign departments. The business world also complains that there is an insufficiency of that class of young men possessing such a broadness of view, independence of thought, and spirit of business activity, as to enable them to be advanced from routine clerkships to positions represented by secretaries and heads of departments, of whom is demanded initiative and the capacity for taking responsibility.

It is from trained men of this class that, under modern business conditions, future managers and independent business men are likely to come. It has been said by more than one authority that future executives will probably come from the ranks of those who, with thorough technical knowledge joined to a comprehension of industrial conditions, are able to effect economies, reduce cost, and perfect a well-organized and smoothly running system. The largest opportunities in the modern business world of elaborate organization and exacting requirements should present themselves to those who have received the benefit of higher commercial training.

That such training is possible can be no longer questioned. The experience of higher commercial education in both Europe and the United States has removed the doubt. It is possible because, on the one hand, business has accumulated a fund of experience that may be drawn upon, shaped into scientific form, and made the basis of instruction in business theory and practice; and because, on the other hand, many businesses have branches requiring the ability to make special applications of principles derived from developed fields of knowledge, the acquisition of which is accomplished only after long and scientific training.

The assertion has been often made that college life unfits men for business. This is in part true. The unfitness has sprung, however, not so much from the lack of such preparation as is directly applicable to the work in hand, as from the fact that college associations and activities, while stimulating some, leave passive others of the characteristics necessary for success in business life. The undergraduate life does develop, with a thoroughness unexcelled by any other, certain characteristics fundamental to the successful business career, — independence, originality, adaptability, broadness of mind; but it is also true that in many instances it fails to stimulate the fire and energy necessary to success in business life. The problem, therefore, in the organization of institutions for training that class to which the Tuck School offers its service, is a threefold one. They should aim to adapt the subject matter of their instruction to the special needs of those careers for which they train; to develop the broad, open, and receptive mind, — characteristics which can be nowhere better developed than in college life and work; and to counteract the tendency of college life to divert the energy and spirit so essential to business success.

The Tuck School rests its claim for recognition upon the ground that this threefold problem is taken into consideration in the provision that its work shall be graduate in character. It permits the student to receive first the benefits of college education, — to develop the man before developing the business man; and then to concentrate a trained mind upon the investigation of business facts and principles, and upon the acquisition of a special knowledge of special branches of business, under a discipline which develops a business *esprit* and prepares him for the discipline of the business world. Quite as much stress is laid by the School upon the creation of this *esprit* as upon the educational equipment.

ORGANIZATION

The course of the Tuck School requires two years' work. This two years is not added to the usual four years of college work, but is so joined to it that the First Year of the School, requiring for admission three years of college work, is identical with the college Senior Year, while the Second Year of the School constitutes a fifth year strictly graduate in character.

THE FIRST YEAR

The work of the First Year is planned with a view to securing the most effective approach to the specialized work of the Second Year. The characteristic part of the work of the year consists of courses in Commercial Law, Accounting, Commercial Mathematics, and Commercial French, German, and Spanish. To complete the academic foundation for specialized work there are also added advanced courses in economics, — Finance, Money and Banking, Transportation, Resources and Industries of the United States, Statistics, and so on; and, to preserve the connection with the students' preparatory work, courses in history, political science, and sociology. The First Year's work of regular students is accepted by Dartmouth College as the final year's work for the bachelor's degree, and the appropriate bachelor's degree is conferred by the College upon such regular students as have completed the work of the year.

THE SECOND YEAR

The Second Year, in subject matter, grade of work, and method of treatment is quite distinct. The subject matter is more technical and may be specialized to meet individual requirements. The work is of graduate grade, and aims to encourage independence of thought and development according to natural inclinations. The discipline is more severe, aiming to approach the discipline characteristic of the business world. Vacations are shortened and the number decreased, the number of courses required of a student and the length of the courses are not fixed, constant and exact work is required, and in many ways the discipline is more rigid than a college can enforce. The work of the resident faculty is supplemented by lectures of business men,

whereby various phases of study are materially strengthened and the students introduced to the spirit and culture of business life. The work of this year leads to the degree of Master of Commercial Science. The work of the Second Year includes:

COURSES OF GENERAL VALUE IRRESPECTIVE OF SPECIALIZATION

(1) ACCOUNTING and AUDITING. This work continues the elementary course in Accounting of the first year, and treats of the modern methods of accounting practised by large corporations, investment brokers, and others. It investigates the problem of uniform municipal accounting, and includes a careful study of cost keeping and of the principles of auditing.

(2) BUSINESS PROCEDURE and ADMINISTRATION. This designation covers a number of courses intended to acquaint men with the general problems of business. It includes business management; corporate administration, with the powers and duties of officers and directors and the discussion of the practical administration of corporate business; business diplomacy, involving the relation of employers to their employees and to each other; lectures on the relation of science to business, which aim to present the points of contact.

(3) LANGUAGE. The foreign languages are recognized as desirable and in many cases essential, especially in businesses which are developing international relationships, and courses are offered in German, French, and Spanish, with special reference to the needs of business men.

COURSES AFFORDING SPECIALIZATION FOR PARTICULAR BUSINESSES

(1) MERCANTILE or MANUFACTURING BUSINESS. In addition to the general courses, courses are offered investigating the sources of raw materials, markets, the mechanism of trade, business technique and management, cost accounting, corporation finance and investments.

(2) COMMERCE. In addition to the general courses, courses investigating the history and the present lines of development of foreign commerce, the technique of foreign commerce, foreign languages, the

resources and industries of countries important in commerce, and foreign exchange.

(3) TRANSPORTATION, especially RAILROAD SERVICE. In addition to the general courses, courses investigating the theory of railroad service, the theory and technique of railroad operation and administration, railroad accounting, and corporation finance and investment.

(4) BANKING, BROKERAGE, and INVESTMENTS. In addition to the general courses, courses investigating the theory and technique of banking, the theory and technique of domestic and foreign exchange, the money market, corporation finance and investments, and the mathematics of compound interest and annuities certain.

(5) INSURANCE. In addition to the general courses, courses investigating the economics of insurance, the mathematics of annuities and insurance, statistics, and corporation finance and investments.

COURSES AFFORDING PREPARATION FOR OTHER SERVICES

(1) CONSULAR SERVICE. A proper selection of courses offered by the School provides special training for the Consular Service, but no great stress will be laid on it until special preparation receives recognition in the Consular Service of the United States. The courses offered in preparation for foreign commerce are particularly adapted to this purpose.

(2) JOURNALISM. Recognizing that the most valuable training for a journalistic career is a sound knowledge of History, Economics, and the activities of modern business, the School is prepared to train men for this work. A wider range of electives, including especially English Composition, is permitted to such men.

(3) TEACHING COMMERCIAL SUBJECTS. Many academies and high schools are adding to their curricula commercial courses; this is creating a demand for college graduates specially trained to teach these subjects. A proper selection of courses affords the opportunity for men to prepare for these positions.

(4) ENGINEERING and BUSINESS. The opportunities which are presenting themselves, especially in the newer and less developed countries, for men who are trained both for Engineering and Business, have created a demand on the part of the engineering profession for men of more thorough business training. The Thayer School of Civil Engineering, associated with Dartmouth College, gives oppor-

tunity for men to secure this combined training, and facilities are offered to such men as desire to pursue work in both Schools.

(5) SHORTHAND and TYPEWRITING. The Tuck School does not offer courses in shorthand and typewriting. Their utility being recognized, however, the School has made arrangements whereby a course of private lessons, designed especially to equip men for office work, is offered to students of both years.

CONDITIONS OF ADMISSION

The School offers a two years' course which is open to students under the following provisions: —

ADMISSION TO THE FIRST YEAR

1. CANDIDATES FOR DEGREES. Students are admitted to the First Year as regular students, candidates for the bachelor's degree, who present with their applications credentials indicating that they have pursued creditably three years' undergraduate work in any approved college or university, subject to the following conditions: —

The bachelor's degree for which they become candidates being granted by Dartmouth College at the end of the First Year, the three years' undergraduate work must meet the College requirements for admission to the Senior year of the College (see Dartmouth College Catalogue, 1905–1906, p. 68).

In order to insure adequate preparation for the work of the Tuck School, the three years' undergraduate work must include the following: —

(*a*) English. Two years' work in English Composition or Argumentation.

(*b*) Modern Languages. Work in two of the three modern languages, as follows: German (two years), French (two years), Spanish (one year).

(*c*) History. General History of Europe, representing one year's work.

(*d*) Economics. Elements of Economics, Industrial History, and Commercial Geography.

(*e*) One half-year in Sociology or in Political Science, or an additional half-year in History.

(See pp. 14-18 for a description of courses offered in Dartmouth College meeting these special requirements. Students from other colleges must offer equivalents.)

2. SPECIAL STUDENTS. Students may be admitted as special students not candidates for a degree, whose preparation is such as to give evidence that they can pursue profitably the work of the First Year. A certificate of work actually done is granted to such students.

ADMISSION TO THE SECOND YEAR

1. CANDIDATES FOR THE MASTER'S DEGREE. Students are admitted to the Second Year as candidates for the degree of Master of Commercial Science, who have received from any approved college or university the bachelor's degree, and who in their work for that degree have pursued courses equivalent to those required for admission to the First Year, and also courses equivalent to those constituting the work of the First Year.

2. SPECIAL STUDENTS. Students are admitted to the Second Year as special students, not candidates for a degree, who have pursued creditably as special students the work of the First Year; or not having pursued the work of the First Year, whose preparation is such as to give evidence that they can pursue profitably the work of the Second Year. A certificate of work actually done is granted to such students.

Special students in either year may become regular students, candidates for the appropriate degree, by meeting, by extra work and otherwise, all the conditions as to admission and as to work required of regular students.

APPLICATIONS

Applications for entrance to the Tuck School are to be filed with the Secretary on blanks provided for the purpose.

Applications must be approved by the President of the College and the Secretary of the Tuck School before the applicant can be admitted. In determining the fitness of students for entrance, previous scholarship in the subjects required for entrance, as indicated by the records presented, business aptitudes and experience, and other facts indicating an ability to do the work of the School, are made the basis of judgment.

DESCRIPTION OF COURSES DESIGNED TO MEET THE SPECIAL REQUIREMENTS FOR ADMISSION TO THE AMOS TUCK SCHOOL

The following is a description of those courses offered in Dartmouth College which meet the requirements indicated above for admission to the Tuck School. Students from other colleges must offer courses equivalent to those here described.

ECONOMICS

1 and 2. *Elementary Economics.*

Professor WICKER and Assistant.

First and Second Semesters, 3 hrs.

In these two courses, the attempt is made to give the student the currently accepted scientific analysis of modern industrial society. It seeks to accomplish a threefold purpose: to teach fundamental principles in such a way that they may be applied to the duties of enlightened citizenship; to open up the general field of Economics in the way most helpful for further more detailed and extensive study in the same field; and to offer to those intending to adopt business as a profession, such general rules and principles as are contributed to business by the science of Economics.

While these courses concern themselves primarily with economic theory,— with the most general principles of consumption, production, exchange, and distribution, — the theory itself is developed from and illustrated by a study of actual economic processes and conditions. Thus due attention is paid to the problems of money and banking, the tariff, monopoly, labor, etc., in such a general way that later intensive study of these problems may be based upon the foundations thus laid. Text-book, lectures, and collateral readings. (First semester, Ely and Wicker's *Elementary Principles of Economics;* second semester, advanced text or texts.)

3. *Elements of Commercial Geography.*

Professor PERSON. First Semester, 3 hrs.

This course aims to bring out the general principles of the relation between man's environment and his industrial life, and then to apply

these principles by taking up a study of the various countries as producers and sellers of goods and as markets. While all important regions are considered in an elementary way, a more detailed study is given to the older industrial countries of Central and Western Europe. Among the facts considered are the following: physical conditions, geology, soils, rivers, climate; the nature and distribution of extractive and of manufacturing industries; imports and exports; industrial aptitudes; business methods; and national peculiarities that determine the particular classes of goods demanded. Lectures and text-book. (Adams' *Commercial Geography.*)

4. *Economic History of the United States.*

Professor DIXON and Assistant. Second Semester, 3 hrs.

Sketch of the development of English industry and commerce to the 18th century, followed by a more careful study of the Industrial Revolution. With this as a background, the development of the United States, both industrial and commercial, is treated in the form of lectures, the relation of economic to social and political factors being constantly noted. The following are some of the topics considered: the land policy of the government, the movement of population, and the development of agricultural resources both North and South, including the economic effects of slavery; the origin and development of the extractive and manufacturing industries; transportation development, including turnpikes, canals, and railways; and a sketch of commercial development, including a brief history of protectionism. Lectures, text-book, and collateral readings. (Coman's *Industrial History of the United States.*)

HISTORY

1 and 2. *Mediæval and Modern European History.*

Professors FOSTER and FAY, and Dr. SHEARER.

First and Second Semesters, 3 hrs.

Courses numbered 1 and 2 are treated as a continuous year's course in European History from the Teutonic Migrations to the French Revolution (375–1789). A detailed outline of the lectures, the map and written work, and the recitations on lectures, text-books, and collateral reading will be found in the Syllabus for History 1 and 2. In addition to the recitations, the work will be tested by conferences with the instructors and by short written quizzes at the lecture or recitation. A minimum amount of collateral reading is

required of all, but it is hoped that the student's interest will lead him into independent reading beyond any requirements.

Students taking Course 1 must take Course 2 the next Semester. Courses 1 and 2 are required for all subsequent courses in History, and for all courses in Modern History, Economics, and Political Science.

3. *History of England to the Sixteenth Century.*

Dr. SHEARER — First Semester, 3 hrs.

This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. Lectures, recitations, and reports. Required for admission to Course 4.

4. *History of England and the British Empire from the Sixteenth Century.*

Dr. SHEARER — Second Semester, 3 hrs.

This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures, recitations, and reports.

6. *American Colonial History to 1783.*

Professor FOSTER. — First Semester, 3 hrs.

This course is intended to trace the beginnings of the American Nation rather than the details of the history of the individual colonies. Emphasis is therefore laid on the European inheritance brought to this country by the colonists, their development of American institutions in the new environment, the expansion of population, the struggle between French and English for North America, the underlying causes of the Revolution, the growth of independence and union. Lectures, recitations, and reports.

9. *The Historical Development of Modern Europe, 1789–1900.*

Professor FAY. — First Semester, 3 hrs.

The first part of this course aims to explain the political, social, and intellectual conditions which caused the French Revolution, and to give a brief narrative of the French Revolution itself and of the rise and fall of Napoleon. The second part traces the formation of

the present States of continental Europe, and closes with some account of the actual government of each. The course is thus a continuation of History 2 and an introduction to an understanding of the political conditions and questions of the Europe of to-day. Lectures, quizzes on reading, recitations on text-book, and theses.

POLITICAL SCIENCE

1. *American Political Institutions.*

Professors WELLS and PERSON. First Semester, 3 hrs.

A concise survey of the origin, development, and practical working of American political institutions. This course will include an historical review of the formation of the Federal Constitution and a study of that Constitution as a body of living principles; the working relations of the Federal and State governments; the nature of the American State and the working of its government, and a brief examination of different forms of local and municipal governments. The general aim will be not only to prepare students by adequate information for the proper discharge of the duties of citizenship, but also to stimulate in them a thoughtful patriotism and quicken their sense of civic responsibility. Recitations and lectures. (Wilson's *The State* and Bryce's *American Commonwealth.*)

SOCIOLOGY

1. *Ethnology.*

Professor WELLS. First Semester, 3 hrs.

This is an introductory course and should be taken by those who propose to take subsequent courses in Sociology. It considers man's place in nature, and the races and varieties of mankind. The method of treatment is both historical and descriptive. Each student is required to provide himself with a good atlas and to make constant use of the library for notes and reports. Lectures and recitations.

2. *Biological Sociology (Vital Phenomena).*

Professor WELLS. Second Semester, 3 hrs.

This course treats of man's adjustment to his natural environment and of the way in which it determines his mode of life and his institutions, with particular reference to climatic conditions and problems of tropical colonization. It is the biology of population, involving a study of birth rates, death rates, and kindred phenomena by the statistical method.

MODERN LANGUAGE

English. Two years' work in English is required for entrance. The work of the first year is in English Composition and Rhetoric. The work of the second year may be pursued in English Composition and Literary Analysis or in Argumentation and Debate at the option of the student. For further information, consult Dartmouth College Catalogue.

Foreign Language. The elementary work in two of the three languages, German, French, and Spanish, is required for entrance to the School. This means in a general way two years' work in French and German and one year in Spanish. The work covered is pronunciation, grammar, composition, sight-reading, and translation. For further information, consult Dartmouth College Catalogue.

FIRST YEAR

ARRANGEMENT OF COURSES

The total amount of work carried each semester should be equivalent to seventeen hours of college work. This nominal requirement represents a minimum; certain courses carry with them additional individual work, to which students are expected to give a liberal amount of time. As indicated in the table below, eleven of the seventeen hours are prescribed and six are elective. The student must make his schedule under the direction of the Secretary.

To meet special needs, students may take courses in Dartmouth College not here offered, as substitutes for elective courses. Those preparing for Journalism are permitted wider elections in English; those preparing for manufacturing businesses making it advisable are given opportunity to secure the necessary training in Chemistry; those preparing for Insurance are required to make elections in Mathematics; those preparing for businesses with international connections are expected to take more Modern Language than the minimum requirement.

First Semester		Second Semester	
Prescribed	Hours	*Prescribed*	Hours
Accounting and Mathematics A	2	Accounting and Mathematics B	2
Commercial Law A	2	Commercial Law B	2
German A *or* French A *or* Spanish A	2	German B *or* French B *or* Spanish B	2
Resources and Industries of the United States	2	Resources and Industries of the United States (*continued*)	2
Money and Banking *or* Industrial Organization	3	Statistics	3
	11		11

First Semester		Second Semester	
Elective	Hours	*Elective*	Hours
Industrial Organization *or* Money and Banking	3	Public Finance	3
Commercial History and Policy	3	Transportation	3
Political History of the United States	3	Labor	3
American Constitutional Law	2	Comparative Constitutional Law	3
Municipal Administration	2	International Law	2
Anthropological Sociology	3	Psychological Sociology	3
German A *or* French A *or* Spanish A	2	German B *or* French B *or* Spanish B	2

DESCRIPTION OF COURSES

Those courses indicated as extending through both semesters must be elected for the year, and no credit will be given in such courses for less than a year's work.

ACCOUNTING AND MATHEMATICS

A and B. *Theory and Practice of Accounts and Commercial Mathematics.*

Mr. Gray. First and Second Semesters, 2 hrs.

A practical course, accompanied by lectures. The work in accounting consists of, — (*a*) Introductory: journalizing, posting, opening and closing accounts, trial balances, statements of profits and loss, balance sheets, and change from Single to Double Entry. (*b*) Manufacturing Accounts: determination of the elements of the business, adaptation of a set of books, entry of transactions, determination of gross and net profits, construction of balance sheet, and closing of books. (*c*) Corporation Accounts: the manufacturing business is converted into a corporation with increased capitalization, and a more elaborate system of accounting is devised; special attention is given to the modern forms of principal and auxiliary books, and to the accountant's treatment of depreciation, gross and net profits, dividends, reserve, surplus, and balance sheet.

The work in mathematics aims to collect and correlate those principles in the various mathematical subjects which may be needed by the business man, and to give the student proficiency in their use.

Weights and measures, money systems, percentage, profit and loss, trade discounts, brokerage, interest, foreign exchange, stock and bond values, taxes and duties, partnership accounts, averaging accounts, short cuts, calculating machines.

LAW

A and B. *Commercial Law.*

Professor BOWMAN. First and Second Semesters, 2 hrs.

An outline of the main principles of the law of contracts; agency; bailments, including the obligations of postmasters, innkeepers, common carriers, and telegraph companies; bankruptcy and insolvency; insurance; negotiable instruments; partnerships, joint-stock companies and corporations; the acquisition and transfer of property, and sales of personal property.

MODERN LANGUAGE

Each of these courses aims to increase the student's knowledge of the grammatical structure of the language, and his knowledge of the common idioms; to familiarize him in particular with the vocabulary and the idioms of trade and commerce; to enable him to make use of the trade, commercial, and financial periodicals of the language; and to give him practice in the writing of business letters, forms, etc.

Commercial French

A and B. *Composition and Conversation.*

Mr. MURRAY. First and Second Semesters, 2 hrs.

Commercial German

A and B. *Composition.*

Mr. MURRAY. First and Second Semesters, 2 hrs.

Commercial Spanish

A and B. *Composition.*

Mr. MURRAY. First and Second Semesters, 2 hrs.

ECONOMICS

5. *Money and Banking.*

Professor PERSONS. First Semester, 3 hrs.

A discussion of the most important features of the institutions of money, banking, and credit, with special reference to their functions in the economic life of to-day. The history of money and banking in the United States. Description of the monetary and banking systems of important foreign countries. Discussion of practical problems, such as: changes in the value of money and their effects on prices and incomes, bimetallism, inconvertible paper currency, the relation of the sub-treasury system to the supply of money, proposed modifications in the national banking laws. Lectures on monetary and banking history. (*Report of the Monetary Commission*, Dewey's *Financial History of the United States*, and White's *Money and Banking*.)

6. *Public Finance.*

Professor PERSONS. Second Semester, 3 hrs.

This course deals with public revenues and expenditures and the administration of public funds. An introductory sketch of the development of public finance as a science is followed by a discussion of public expenditures, their growth, classification, and relation to governmental functions. The administrative and legislative work of preparing a budget is described. In the treatment of public revenues special attention is given to problems of state and local taxation. Some of the topics discussed are: theories of just taxation, progressive taxation, the shifting and incidence of taxation, the internal revenue system, the tariff on imports, the general property tax, income and inheritance taxes, special taxes on corporations, the work of state tax-commissions. Public debts are treated with reference to their financial justification and their economic effects. (Adams' *Science of Finance*, and Bullock's *Selected Readings*.)

7. *Industrial Organization.*

Professor DIXON. First Semester, 3 hrs.

Historical development and analysis of the different forms of industrial organization, including the partnership, joint-stock company, and the corporation, and the later developments, such as the pool, trust, combination, and holding company. Critical discussion of the

advantages and disadvantages of recent forms of business organization, illustrated by documents. Elements of the law of corporations, with special reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization and manipulation. Public policy toward corporations, with special reference to taxation. Commerce clause of the Federal Constitution and its growing importance. Lectures, text-books, and assigned readings. (Meade's *Trust Finance* and Ripley's *Trusts, Pools, and Corporations.*)

8. *Transportation.*

Professor DIXON. Second Semester, 3 hrs.

Steam railways. (*a*) The railway problem of the United States, including theories of rates, combination and pooling, consolidation, community of ownership, and government ownership or control, involving a careful consideration of the work of the Interstate Commerce Commission and of State commissions. (*b*) A comparative study of the railway systems of other countries, especially England, Germany, France, Canada, and the Australian Commonwealth, with a consideration of the economic significance of the world's great railway systems.

Transportation and communication other than by steam railways. (*a*) Lake, river, and canal transportation in the United States and other countries. (*b*) Ocean transportation with special reference to its relation to the transportation systems of various countries. (*c*) Interurban railways and their growing competitive power, telegraphs, telephones, and cables. Lectures, text-book, and assigned readings and reports. (Johnson's *American Railway Transportation* and Smith's *Organization of Ocean Commerce.*)

9. *Resources and Industries of the United States.*

Professor PERSON. First and Second Semesters, 2 hrs.

(*a*) A detailed study of the fundamental conditions of the industrial development of the United States, such as geographical, geological, and climatic factors; the extent and distribution of resources; industrial traits; labor conditions; forms of industrial organization.

(*b*) A general survey of the development and present conditions of the more important extractive industries, — agriculture, horticulture, forest industries, fishery industry, and mining.

(*c*) A minute investigation of the development and present condition of typical manufacturing industries, each being considered as to the securing of raw materials, technical processes and costs of manufac-

ture, form of organization, methods of management, the times, places, and methods of the sale of finished products, and as to its general conditions and prospects.

Emphasis is given throughout this course to facts of practical value, and practical use is made of the material in the Commercial Museum.

10. *Labor.*

Professor WICKER. Second Semester, 3 hrs.

A preliminary review of the economic theory of labor and wages, followed by a concrete, practical study of the present status of labor in the chief industrial nations. Among the more important topics to be treated are forms of remuneration, labor unions, strikes and boycotts, arbitration and conciliation, labor law in the United States and England. Lectures and recitations. (Adams and Sumner's *Labor Problems.*)

11. *Commercial History and Policy.*

Professor DIXON. First Semester, 3 hrs.

Historical study of the tariff policy of the United States, with comparative study of the policy of related countries; commercial treaties, including the policy of reciprocity; navigation laws, bounties, subsidies, preferential tariffs, and the problem of our merchant marine; the commercial relation of the United States to its recently acquired possessions. Text-book, assigned readings, and reports. (Ashley's *Modern Tariff History.*)

12. *Studies in Statistics.*

Professor PERSONS. Second Semester, 3 hrs.

Statistical methods are studied through their application to the investigation of various economic problems. Some attention is given to the sources and reliability of statistical data and to methods of determining the probable accuracy of the results of statistical analysis. Students are trained in the use of the graphic method as an aid in the solution of problems and in the presentation of results.

MODERN HISTORY

1. *Political History of the United States* (1783–1877).

Professor J. H. SMITH. First Semester, 3 hrs.

The Political History of the United States from the close of the Revolutionary War to the close of the Reconstruction period (1783 to 1877). The core of the work is the mastery of a brief text-book, regarded as a full syllabus, and supplemented with formal lectures required readings, and the investigation of original sources. The chief stress is laid upon the broad movements of the period, and the vital processes by which the States of the Revolutionary Period have become the American Nation of recent times.

POLITICAL SCIENCE

2. *Comparative Constitutional Law.*

——— Second Semester, 3 hrs.

A comparative study of the constitutional law and development of the United States and the principal European States, with illustrative references to Mexico, Brazil, and the lesser States of Europe. The course comprehends a study of the historical and contemporaneous relations of sovereignty and government; of the sphere of civil liberty; and of the principles and actual working of constitutional law and government in these States. Lectures and collateral reading.

3. *American Constitutional Law.*

Professor COLBY. First Semester, 2 hrs.

This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of the written constitution in America, to the formation of the early state constitutions, and the various sources of the Federal Constitution and to its text. Recitations and lectures. (Cooley's *Principles of Constitutional Law.*) Four hours a week for the first nine weeks.

7. *Municipal Administration.*

——— First Semester, 2 hrs.

A study of municipal activities in the United States, England, Germany, France, and Italy. Among the subjects discussed are:

the origin and evolution of the city; the city as agent of the State; the city as local corporate body; municipal organization; municipal politics and elections; municipal functions, such as education, charities, police, public works and finance; social and economic problems of cities. Lectures.

8. *International Law.*

Professor COLBY. Second Semester, 2 hrs.

This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized States, and their recent modifications by treaty. Recitations and lectures. (Lawrence's *International Law.*) Four hours a week for the last nine weeks.

SOCIOLOGY

3. *Anthropological Sociology* (*Social Phenomena*).

Professor WELLS. First Semester, 3 hrs.

Its subject is the social life of to-day, particularly in America. It investigates the statistics of social conditions and social groups. This involves a study of Social Classes, Crime, Pauperism and Social Reform.

4. *Psychological Sociology* (*Social Forces*).

Professor WELLS. Second Semester, 3 hrs.

This approaches social facts from the mental side, considering them as expressions of the human mind or products of human effort. It attempts to explain human society and human institutions from within, by the method of scientific interpretation.

MATHEMATICS

Students who have not had Calculus, intending to specialize in Insurance in the Second Year, are required to substitute for electives here offered such courses in Mathematics in Dartmouth College as will enable them to enter the Second Year with a knowledge of Calculus. See Dartmouth College Catalogue, 1905-1906, pp. 101–103.

CHEMISTRY

Students intending to specialize in preparation for businesses in which a knowledge of Chemistry is desirable, are permitted to elect, in lieu of electives here offered, courses in Chemistry in Dartmouth College.

SECOND YEAR

ARRANGEMENT OF COURSES

The courses of the second year are not arranged upon an arbitrary Semester basis, the length of time of each course being determined by the character of the subject. Students must hold themselves in readiness to crowd the course of any non-resident instructor or lecturer into as short a space of time as the convenience of the instructor may require.

Elections must be made under the direction of the Secretary. It is the aim to so direct the individual student in making his election that, his preparation and his desires as to specialization being taken into consideration, the best results may be secured from the work of the year.

In order to insure a flexibility that will make possible the adaptation of each student's work to his special requirements, the courses of the Second Year are not grouped into Prescribed Courses and Electives. For each line of specialization, however, there are certain courses which may be said to be essential, and on this basis the courses of the Second Year may be freely grouped as follows: —

All Lines of Specialization

Essential

Accounting and Auditing
French *or* German *or* Spanish
Thesis Conference
Journal Conference

Mercantile and Manufacturing Business

Essential

Business Management
Mechanism of Trade
Relation of Employer to Labor
Cost Accounting
Corporation Finance and Investments
Foreign Commerce
Advanced Commercial Geography

Optional — all others

FOREIGN COMMERCE

Essential

Foreign Commerce
Advanced Commercial Geography
Modern Languages
Foreign Exchange
Business Management
Mechanism of Trade
History and Diplomacy
Corporation Finance and Investments

Optional — all others

RAILROAD SERVICE

Essential

Railroad Service
Railroad Operation and Administration
Cost Accounting
Corporation Finance and Investments
Business Management
Mechanism of Trade

Optional — all others

BANKING

Essential

Practical Banking
Foreign Exchange
Mathematics of Insurance *part* (*a*)
Foreign Commerce
Corporation Finance and Investments
Business Management

Optional — all others

INSURANCE

Essential

Economics of Insurance
Mathematics of Insurance
Administration of Insurance Companies
Practical Banking
Corporation Finance and Investments
Business Management

Optional — all others

DESCRIPTION OF COURSES

ACCOUNTING AND AUDITING

C. *Advanced Accounting and Auditing: Practice and Analysis.*

(*a*) Investment Accounting: the conduct and analysis of a series of investment accounts, to show the most approved methods of accounting in the handling of interest-bearing securities.

(*b*) Cost Accounting: the conduct and analysis of a series of typical cost accounts.

(*c*) Auditing: a consideration of the theory and practice of auditing, the duties of the auditor, his qualifications, and the scope of his examination of accounts. The analytical treatment is accompanied by practical problems in auditing. Mr. GRAY.

D. *Special Studies in Accounting.*

This course consists of a group of courses, each relating to a particular business. To students preparing for banking is offered a special course in the conduct and analysis of bank accounts; to students preparing for insurance, a special course in the conduct and analysis of insurance accounts; to students preparing for general business, a special course relating to cost accounting and systems; and so on for other lines of business. Mr. GRAY.

PRIVATE FINANCE

A. *Practical Banking.*

(*a*) Examination of the mechanism and methods of different banking institutions with reference to organization, administration, investments, loans and discounts, reserves, deposits, circulation, clearing systems, correspondents, etc. Attention is given to the duties of the various bank officials and the relations of the different departments in typical banks. The main features of the present federal and state regulation of banks are studied, and proposed modifications are discussed. Comparisons are made with foreign banking methods in cases where such comparisons are instructive.

(*b*) Detailed study of the New York money market, supplemented by a general survey of the money market in London, Paris, and Berlin. Current fluctuations in money rates are recorded and analyzed. The relation of the money market to investment and speculation is emphasized. Professor PERSONS.

B. *Foreign Exchange.* An advanced course, of use to men planning to enter banking or foreign trade. The course includes the study of the causes of fluctuations in exchange rates, gold shipments, international investments as affecting the settlement of balances, the monetary systems of foreign countries, and the actual methods of buying and selling foreign exchange. Professor PERSONS.

C. *Corporation Finance and Investments.*

(*a*) Forms of corporation securities; bankruptcies; reorganizations; receiverships; methods of corporate accounting.

(*b*) Organization and methods of the stock market, and its relation to corporate practice. Brief study of foreign investment markets.

(*c*) History and general principles of investment; classification of investment securities; detailed study of corporation reports from the standpoint of the investor; analysis of the investments of typical institutions, such as savings banks, insurance companies, and educational institutions. Professor DIXON.

D. *Practical Study of the Market.* A series of lectures on the theory and practice of the stock and money markets, from the standpoint of the practical banker. Mr. RIPLEY.

COMMERCE AND INDUSTRY

A. *Foreign Commerce of the United States.*

(*a*) Detailed study of the methods and forms employed by American merchants in their dealings abroad, including cable codes, orders, invoices, bills of lading, customs formalities, marine insurance, and ship's papers.

(*b*) The customs tariffs of the more important commercial nations, including commercial and reciprocity treaties, bounties, tonnage duties, port regulations, laws governing coastwise traffic.

(*c*) Detailed study of American Commerce with the aid of trade papers, consular reports, and the government publications of various kinds, with a special consideration of the acquirement of new markets by adaptation of products to their needs and of the retention and extension of markets already open. Professor PERSON.

B. *Advanced Commercial Geography.* An exhaustive study of the physical and social conditions of industry in regions like the Colonies of the United States, Cuba, Central America, South America, South Africa, Australia, and China. This course aims to

cover the field from two points of view, studying the existing and prospective conditions of these regions, first, as to markets for the productions of the United States, and, second, as to investments and the establishment of industrial enterprises in these regions.

Professor PERSON.

C. *Mechanism of Trade.* A special study of the leading industries with reference to the influence on them of institutions that have appeared with the development of modern industry. The influence on these industries of boards of trade, exchanges, wholesale and retail associations, trade publications, transportation agencies, labor organizations, extended markets, and so on.

Professor PERSON.

D. *Relation of Science to Business.* A series of lectures intended to show the student the points of contact between business and science.

(*a*) Chemistry. The place of the chemist in the world's work The utilization of by-products, the economic value of exact knowledge.

Professor BARTLETT.

(*b*) Biology. The growing commercial importance of the science.

Professor PATTEN.

(*c*) Physics. Relation of the Bureau of Standards to Commerce, the standardizing of measures of length and mass, of electrical quantities and candle powers. Application of electricity to industries; electric power transmission, electric traction, efficiency factors.

Professor HULL.

E. *Relation of the Employer to Labor.* This course deals with the present relations of Capital and Labor in the United States. It investigates the statistics, organization, and methods of Trade-Unions, their temper and tendencies, together with Strikes and Lockouts. It considers the social conditions which are fundamental to the economic relations of employers and wage receivers. This course is based on the belief that an understanding of the workingman's point of view is essential to the successful conduct of business.

Professor WELLS.

TRANSPORTATION

A. *Railroad Service.*

(*a*) Organization. The organization of a railroad, including its charter rights, powers and duties of stockholders; internal organization for business purposes with the various plans on different systems;

officers and employees and their duties; relations of employees to their employment, including examinations for employment, rules of discipline, relief departments and pensions.

(*b*) Operation. Movement of trains, cars and power, problems of loading, car accounting and interchange, including the discussion of mileage vs. *per diem* payment, duties of employees engaged in operation.

(*c*) Traffic. Rules and regulations governing freight traffic, discussion of passenger, mail, and express service, methods of traffic development; methods of rate-making and various kinds of rates; bills of lading and other forms used in traffic handling; fast freight lines, traffic associations, pools, and other forms of railroad co-operation.

(*d*) Mechanics. Study of the elements of railroad construction and maintenance and their costs. Details of locomotives and cars, their use, construction, and repair. Modern mechanical and safety devices, including brakes, couplers, signalling systems, and the like. Purchasing Department, with consideration of properties of materials and railroad supplies. This section of the work will be conducted in part under Course G (2d part) in the Thayer School of Civil Engineering under the title "Economics of Location, Construction, and Maintenance of Railways."

(*e*) Finance and Statistics. (1) *Accounting and Auditing.* Organization of this department with a study of its duties and the methods employed. (2) *Statistics.* Careful study of the statistical results of railroad operation and management, including the significance of the various statistical units and averages used. Reports made by railroads to the Interstate and State Commissions. (3) *Finance.* Interpretation of railroad reports, including income accounts and balance sheets and determination of the different policies pursued as to maintenance and betterments. The more general discussion of capitalization, reorganization, and the like will be found under Private Finance D.

(*f*) Legal. The rights of railroads under common and statute law, their obligations to employees and shippers, taxation, relation to Interstate and State Commissions. Professor DIXON.

B. *Railroad Operation and Administration. — From the accountant's standpoint.*

(*a*) Transportation on a Railroad. The moving of trains, single track, double track. How they are made up and broken. The hostling and care of engines at terminals. The yard work, various plans of switching. The stations and warehouses. How freight is handled, negotiation of its receipt and delivery.

(*b*) Maintenance. The forecast and recast of the work. The annual and monthly budget. How maintenance differs from transportation. Description and classification of maintenance. How the work of maintaining track and structures is carried on. How the cars and locomotives are kept up to standard. The various reports and analyses that keep the supervising officer in touch with the situation.

(*c*) Revenue. How assessed and collected. The safeguards thrown around its collection and remittance. The Travelling Auditor, his duties and his methods. The work of the freight and ticket accountants. The different systems of freight accounting. The clearing house, its advantages and limitations.

(*d*) Disbursements. What they are for. How they are made. The authorization of disbursements and the accounting and auditing. The classification of disbursements. The principles of disbursement statistics.

(*e*) Cars and Power. The methods of car distribution and balancing power. How daily disposition of car supply and power is watched. The interchange and accounting for cars. Mileage vs. *per diem*. Stores, how bought and disbursed on a railroad, how watched and accounted for.

(*f*) Organization of a small railroad — of a large railroad. The divisional *vs.* the departmental plan. The significance of subordination. The dual capacity and how harmonized with the general plan. Mr. EATON.

INSURANCE

A. *The Economics of Insurance.* The theory of insurance; the development of insurance companies; the various systems of insurance; public control of insurance companies; insurance finance; and related subjects. Professor PERSONS.

B. *Insurance Mathematics.*

(*a*) The mathematics of compound interest, including annuities certain. This part of the course may be taken to advantage by students who are not specializing in insurance.

(*b*) The theory of probabilities; the construction of mortality tables; the computation of reserve, surplus, premiums, endowments, dividends, and the like. For this part of the course a knowledge of Calculus is desirable. Professor PERSONS.

C. *Administration of Insurance Companies.*

A series of lectures designed to illustrate the practical workings of insurance as conducted to-day in all its important forms, with special reference to the United States. This will involve consideration of fundamental assumptions, rate-making, policy construction, varied benefits, field management, advertisements, compensation, solicitation, medical selection, practical accounting, investments, office-work, corporate management, state supervision, insurance law, insurance by the state, social service, and problems. A critical estimate will be presented of the leading theories and different practices related to these questions, the object being to give a just estimate of the business, and a comprehensive knowledge of its present-day workings.

Mr. DEBOER.

BUSINESS PROCEDURE AND ADMINISTRATION

A. *Business Management.*

(*a*) A correlation with special reference to business management of the most important principles of Economics, Private Finance, and Accounting. Production; wages and conditions of efficient labor; interest; functions and qualifications of the enterpriser; profits; fixed and variable expenses of production; loan capital and the turnover; time-saving processes and the turnover; depreciation and the conservation of capital; theory and methods of advertising.

(*b*) Organization. The plant as related to the business; typical organizations of different forms of business; the interrelations of the personnel of the business force.

(*c*) System. Systems whose object is efficient routine; systems whose object is the collection of statistical records. Details of system: buying; storing; records of materials in process; records of labor; records of work and depreciation of machines; advertising, selling, and the sales force; credit and collections.

Professor PERSON.

B. *Corporate Administration.* Methods employed in the creation and dissolution of corporations; the problem of capitalization and the valuation of tangible and intangible assets; details of constitution and by-laws; relations of officers and directors; forms of internal organization; practical administration of corporate business; methods of consolidation; reports to public bodies; the problem of publicity.

Professor DIXON.

C. *Business Problems of the Future.* A series of lectures which discuss the changing conditions of modern business, the factors of business success, and new problems with the ways of meeting them.

Mr. LOGAN.

D. *Bank Administration, Railroad Administration,* and *Administration of Insurance Companies.* See Private Finance A, Transportation A and B, and Insurance A and C.

HISTORY AND DIPLOMACY

A. *Historical and Diplomatic Influences in the Development of American Commerce.* A review of the social and political development of the peoples of Canada, Mexico, and the South American countries, and of the diplomatic relations of these peoples, for the purpose of acquainting the student with the influence of such development and relations on the commerce of these peoples.

Professor SMITH.

MODERN LANGUAGE

Two courses, C and D, the two constituting a year's work, are offered in each of the three languages, German, French, and Spanish. These courses continue the work of the First Year in a more advanced form. The reading of trade, commercial, and financial periodicals is continued, while greater attention is given to all forms of business correspondence, to commercial documents, and to the writing of advertisements and catalogues.

French C and D. *Advanced Composition and Conversation.*

Mr. MURRAY.

German C and D. *Advanced Composition and Conversation.*

Mr. MURRAY.

Spanish C and D. *Advanced Composition and Conversation.*

Mr. MURRAY.

JOURNAL CONFERENCE

In order to keep the students acquainted with important events of trade, commercial, and financial interest, a conference of students and instructors is held once each week, to discuss the leading articles and news items of technical papers and magazines.

THESIS CONFERENCE

An important part of the work of the year is the preparation of a Thesis upon a subject along the line of the student's special work. A conference of students and instructors will be held each week during the year for discussion and suggestion.

TEACHERS' SEMINAR

A seminar for students preparing to teach commercial subjects, conducted by the members of the Faculty of the Tuck School, in which the various subjects studied in the Tuck School are reviewed. A critical study is made of standard text-books, and of the selection and presentation of the most important topics.

CALENDAR

The calendar of the first year is the same as that of Dartmouth College. The year is divided into Semesters, with the usual Thanksgiving, Christmas, and Easter recesses, and closes the third week in June.

The second year is entirely independent of the College. One day of vacation is granted at Thanksgiving, and two weeks at Christmas. The Easter recess is omitted, and the year closes the last week in April. This plan has been adopted in order that the work of the concluding year may be concentrated, and that the student may take advantage of the opportunities of the early spring for entering business.

STANDING

In order to enter upon the work of the Second Year, students are required to maintain during the First Year a general average standing of not less than 75 per cent.

Students in the First Year whose marks at the middle of either Semester do not meet the standards required, will be warned of their deficiencies. If these students have not reached the required standard at the end of the Semester, they may be dropped from the School.

ABSENCE

The First Year Men are subject to the same regulations concerning absences as are the Seniors in the College, and all excuses for absence must pass through the hands of the Dean of the College. In addition the Tuck School Faculty reserves the right to pass judgment. Extensive absence, whether excused or not, may be regarded as indicating a lack of interest in the work, or may in the judgment of the Faculty render it impossible for the student to continue the course with profit. An excessive number of absences will render the student liable to be dropped from the School at the end of the Semester.

No absences are allowed in the Second Year except after special permission granted in each case by the Secretary.

EXAMINATIONS

Examinations for First Year Men are held at the close of each College Semester, the examination periods being the same as those of the College.

Examinations for Second Year Men are held at the conclusion of each course, and additional examinations are given from time to time at the convenience of the departments concerned.

The final examinations are both oral and written, and cover the work of the final year. These oral examinations are conducted in the presence of a committee of the Faculty by the instructor in whose department the principal part of the work of the student falls.

DEGREE

The degree Master of Commercial Science will be conferred upon those who have completed the work of the School, and have with credit passed all examinations and presented and defended a satisfactory thesis.

THESIS

The subject of the thesis must be announced to the Secretary as early as the 15th of November of the year in which the student expects to take the degree.

The thesis must be completed and put in the hands of the Secretary as early as the 1st of April of that year.

The thesis, after acceptance by the instructor concerned, must be read and defended before a committee of the Faculty.

Every candidate for the degree shall deposit a typewritten copy of his thesis in the Library of the School before being permitted to take his final oral examination for the degree.

FEE

A fee of ten dollars is charged for the degree. This and all other College fees must in all cases be paid into the College Treasury before the candidate is permitted to take his final oral examination.

FACILITIES

A second gift from Mr. Tuck provided the funds for the construction and maintenance of a building specially adapted to the work of the School. Tuck School is three stories high, the main portion one hundred feet front by fifty feet, with an addition at the rear sixty by forty feet of the same height as the main building. The first floor contains the administrative offices, instructors' offices, recitation rooms, and a lecture room, equipped with projecting and reflecting apparatus, seating two hundred and seventy-eight persons. The second floor contains additional recitation rooms, offices, a seminary room, an accounting room equipped with calculating machines and other apparatus, and a library containing books, periodical literature, trade papers, and other material pertinent to the work. The third floor of the building is devoted to the uses of a Museum, which contains exhibits of domestic industries, comprising samples of raw materials, partly finished and finished products and by-products, lantern slides, photographs, maps, charts, and other illustrative matter. On this floor are also a dark room, a workroom for preparing exhibits and charts, and, opening into the Museum, a recitation room in which will be conducted those classes requiring special use of the Museum.

The general library of the College in Wilson Hall is available for Tuck School students.

POSITIONS

Six positions, worth $125 each and requiring services connected with the administration of the School, are open to Second Year Men. These positions are as follows: —

1. One assistant to the Secretary, requiring services in the office of the Secretary.

2. Three assistants in the Library, requiring services connected with the administration of the Library.

3. Two assistants in the Commercial Museum, requiring services in connection with the administration of the Museum.

Applications must be made on blanks furnished by the Secretary, which must be accompanied by records of attainments and testimonials in respect to character and business aptitude.

EXPENSES

The tuition is the same as in the College, one hundred dollars, payable one half at the beginning of the year, the other half on January 10 succeeding. A further charge of twenty-five dollars is made for certain privileges, including the use of Library, membership in College Hall, and the various advantages growing out of the increase of the College plant. The scholarships provided for undergraduates are not available for students of the Tuck School except in so far as such students may be pursuing the work of the first year of the School as Seniors in Dartmouth College.

The expenses of a student will vary from $275 to $550 per year, the most important variable elements being room-rent and board. The College dormitories are open to students of the School. For further information, address

HARLOW S. PERSON, DIRECTOR,
HANOVER, N. H.

THAYER SCHOOL OF CIVIL ENGINEERING

CALENDAR

1906

July 17 . . . Year of thirty-nine weeks for First Year Class began.

September 19 . Year of thirty weeks for Second Year Class began.

December 20 . Recess of two weeks begins.

1907

April 24 . . . Year for the Class of 1907 ends. Graduation. Theses presented before the Board of Overseers. Degree of Civil Engineer conferred.

Summer work period for First Year Class begins; continues about twenty weeks.

OFFICE HOURS

DIRECTOR — Robert Fletcher — Thayer Building, 10 A. M. to 12 M., each week day.

THAYER SCHOOL OF CIVIL ENGINEERING

OVERSEERS

THE PRESIDENT OF DARTMOUTH COLLEGE.

GEN. HENRY LARCOM ABBOT, LL.D. . *Cambridge, Mass.*
JONATHAN PARKER SNOW, C. E. . . . *Boston, Mass.*
PROF. GUSTAV JOSEPH FIEBEGER . *West Point, N. Y.*
——— ——— (successor to the late General Palfrey to be chosen).

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.

ROBERT FLETCHER, PH.D., DIRECTOR *and Professor of Civil Engineering.* 42 College St.

JOHN VOSE HAZEN, C.E., *Associate Professor of Civil Engineering.* 33 N. Main St.

CHARLES ARTHUR HOLDEN, C.E., *Associate Professor of Civil Engineering.* 5 N. Park St.

FRANK EUGENE AUSTIN, B.S., *Instructor in Electrical Engineering.* 11 S. Park St.

HARRISON GEORGE ROBY, C.E., *Instructor in Field-work in July, August, and September.*

NON-RESIDENT LECTURERS

(PARTIAL LIST)

PROF. FRANK BERRY SANBORN, C.E., *Professor of Civil Engineering*, Tufts College; *Inspector* for the Associated Factory Mutual Insurance Companies.

A week of instruction in experimental hydraulics: — fire streams and measurements of water power.

FRANK HAMANT TROW, C.E., *Division Engineer* on Construction of Wachusett Dam, Clinton, Mass.

Practical Points in Topographical Surveying.

RALPH HENRY BROWN, C.E., *Chief Engineer*, Eastern Bridge & Structural Co.

Methods of Designing and Estimating for Steel Structures.

EDGAR HAYES HUNTER, C.E., *Superintendent of Buildings*, Dartmouth College.

Notes on Practical Details of Sewer Construction.

HAROLD EDWARD PLUMER, C.E., *Head of Estimating Department*, Turner Construction Co.

Suggestions from Practice with Re-inforced Concrete. Direction of a series of Experiments.

STUDENTS

SECOND YEAR

Name	Residence	Room
Ayers, Augustine Haines, B.S.	*Concord, N. H.*	1 S. Park St.
Bourne, Charles Luther, B.S.	*Auburndale, Mass.*	28 New Hubbard
Buckbee, Neil Stanley, B.S.	*French Mountain, N. Y.*	5 College St.
Everett, Chester McKenzie, B.S.	*Champlain, N. Y.*	1 S. Park St.
Fox, William Henry, B.S.	*Clinton, Mass.*	Thayer Bldg.
McMore, Harry Allen, B.S.	*Fort Ann, N. Y.*	5 College St.
Molina, Vicente, B.S.	*Merida, Yucatan, Mex.*	11 Pleasant St.
Parker, Fred Foster, B.S.	*West Swansey, N. H.*	4 Wentworth St.
Peckham, Clarence Irving	*East Providence, R. I.*	3 Lebanon St.
Russell, Verney Warren, B.S.	*Norwich, Vt.*	13 E. Wheelock St.
Smith, Watson Burchard, B.S.	*Omaha, Neb.*	1 S. Park St.
Soule, Carlton Manson, B.S.	*East Weymouth, Mass.*	1 S. Park St.

INTERMEDIATE YEAR

(Students on leave of absence for field and office practice.)

Boynton, Herbert Leslie, B.S. *Haverhill, Mass.*
Rodman, Chi. & Northwestern R.R. Co., 604 No. Ninth St. Sheboygan, Wis.

Chase, Joseph Theodore, B.S. *Holyoke, Mass.*
Inspector and Asst. Engr. for Jos. H. Wallace, Industrial Engr., Temple Court Building, New York, N. Y.

Porter, Henry George, B.S. *Bartlett, N. H.*
Inspector and Foreman for Hastings Pavement Co., New York, N. Y.

Welch, Frederick William, B.S. *East Lempster, N. H.*
Instrument man on construction work, Northern Pac. R.R., Walker, Wash.

Wood, Raymond Collins, B.S. *Haverhill, Mass.*
Draftsman, Turner Construction Co., 11 Broadway, New York, N. Y.

FIRST YEAR

Name	Residence	Room
Bartlett, Samuel Colcord	*Hanover, N. H.*	8 W. Wheelock St.
Brown, Ray Wilbur	*Fall River, Mass.*	3 Bartlett
Davis, Nathaniel Francis	*Davisville, N. H.*	2 Sanborn
Dunlap, John Hoffman, A.B.	*East Concord, N. H.*	1 S. Park St.
Ellsworth, Clarence Eugene	*Wentworth, N. H.*	9 W. South St.
Garvin, Samuel Francis	*Sanbornville, N. H.*	2 Sanborn
Gray, Harry Matt	*Chicopee, Mass.*	28 Reed
Greenleaf, Fred Bacon	*Auburn, Me.*	27 Richardson
Hayes, Reuben	*Dover, N. H.*	4 Hubbard
Hinman, Herbert Davis	*Groveton, N. H.*	3 Bartlett
Kimball, William Rice	*Oak Park, Ill.*	25 College
Knapp, Merton Clark	*Keene, N. H.*	40 S. Main St.
Knight, Nathaniel Hobbs	*North Berwick, Me.*	1 S. Park St.
Knight, Ralph Gardner	*Randolph, Mass.*	34 Reed
Langley, Clarence Erwin	*Wolfboro, N. H.*	5 College St.
Main, Charles Reed	*Winchester, Mass.*	X Φ House
Mullins, Roy	*Baldwinville, Mass.*	9 College St.
Parker, Harold	*Portsmouth, N. H.*	19 Fayerweather
Pearson, Robert Houghton	*Concord, N. H.*	5 Crosby
Peck, Russell Hastings	*Mt. Vernon, N. H.*	5 College St.
Pierce, Henry Tyler	*West Millbury, Mass.*	8 Lebanon St.
Richards, Earl Thomas	*Holyoke, Mass.*	27 College
Richardson, Charles Porter	*Dover, N. H.*	5 College St.
Silleck, William Maddock	*New York, N. Y.*	1 S. Park St.

THAYER SCHOOL OF CIVIL ENGINEERING

THE Thayer School of Civil Engineering was established in 1871 to provide a *distinctively post-graduate* or professional course of study in Civil Engineering. In pursuance of this aim the founder caused to be prepared a detailed "Programme" of the requisites for admission, covering mathematics, descriptive geometry, chemistry, physics and related studies, which were regarded as *preparatory*. No specific requirements in language, literature, history, and other subjects which give a broader mental training, were made, because at that time few could get the preparation demanded without attending College at least three years, and often during the usual period of four years. Hence, during the first twenty years of the Thayer School, 72 per cent of all who were admitted had already received the degree of B S. or A.B., and of the balance about 7 per cent had attended College three years, either as "classical" or "scientific" students.

In 1893, the Board of Overseers sanctioned the arrangement by which the first year's course in the Thayer School could be elected by Seniors in College who had attained to a prescribed standard and could pass a special examination conducted by the Director of the Thayer School. This was rendered possible by the readjustment, increase, and expansion of the departments of study in Dartmouth College, in entire accord with the policy announced by the President in his inaugural address in these words: "It is always and everywhere the function of the College to give a liberal education, beyond which and out of which the process of specialization may go on in any direction and to any extent. The College must continually adjust itself to make proper connection with every kind of specialized work, not to do it." The advantages of this policy and arrangement are now widely recognized.

In 1866 there were in the United States six Engineering Schools

In 1866 there were in the United States six Engineering Schools of established reputation. In 1899 there were nearly one hundred of recognized standing, but of various grades determined by requirements of admission and adaptability to the conditions of their location. Usually the preparatory and auxiliary studies are pursued alongside of the strictly technical branches during at least the first three of a four years' course. Some institutions confer the professional degree only after an additional year of post-graduate study and practice. The high standard of the Thayer School has restricted the number of students, but the aim is to secure the selected material of a larger training, from which may be developed broader men, fitted to assume in due time wide responsibilities.

The administration of the Thayer School has endeavored from the first, to offer a general course of study in civil engineering, aiming to include all essential principles and primary operations. There are no laboratories or special machinery for instruction in "mechanical engineering"; but the instruction in applied mathematics, mechanics, and physics covers the fundamental theory of mechanical engineering, and there is a small equipment for a suitable course in electro-technics. Special attention is given to the indispensable general qualifications of the graduate, to wit: He must be fairly adept in the routine practice of surveying, so as to hold his place under an exacting chief of party; he must be, at the start, an acceptable junior draftsman and an accurate computer, able to make a good original, a good tracing, and a blue print; he must have practical knowledge of the ordinary materials of construction, gained by adequate laboratory tests and by trained powers of observation; he must have facility in making accurate and sufficiently complete records in a well-kept note-book; and the habit and method of informing himself as to the progress of engineering science and practice.

The Thayer School is associated with one of the six oldest colleges in America, and offers the following advantages: A location favoring uninterrupted work; small classes, to which experienced instructors give close supervision — three to eight hours daily; hence opportunity for each student to make full use of every facility available; a region favorable for unhampered out-door work, in its varied topography and other conditions; and, for those to whom expense is

a serious matter, a rate of tuition about one-half to two-thirds that at similar institutions of high rank, with cost of living less than in or near a city.

REQUIREMENTS FOR ADMISSION

1. English Grammar; 2. Geography; 3. History of the United States; 4. Arithmetic; 5. Book-keeping: only the simpler principles and methods of single and double entry; 6. Algebra, *Taylor* or *Bourdon;* 7. Geometry, *Legendre;* 8. Trigonometry and Mensuration; 9. Compass Surveying, *Murray;* 10. Descriptive Geometry, including Shades, Shadows, Perspective, *Church;* and Isometrical Drawing, *Warren;* 11. Analytic Geometry, *Bowser* or *Hardy;* 12. Calculus, *Hardy;* 13. Analytic Mechanics, *Wood's* Elementary; 14. Chemistry: as nearly as possible a course equivalent to Chemistry 2, 3, and 4 of Dartmouth College courses; 15. Physics: as nearly as possible the equivalent of Physics 1, 2, 3, and 4, of the College courses (5 is desirable, but not insisted upon); 16. Astronomy, *Young's* Elements; 17. Physical Geography and Meteorology.

The text-books indicated above are recommended, but others fully equivalent may be used.

Candidates for admission should be present for examination two days, at least, before July 15, or, by appointment, in May or June. Notice of intention to apply should be given by April 15, or earlier if possible. None will be received for advanced standing. Certificates from preparatory institutions, as to scholarship and character, will have due weight, but in all cases the candidate is orally examined, more especially with reference to the essential principles of the branches numbered 6, 7, 8, 10, 11, 12, 13, 14, and 15. Prompt and accurate statement of principles and definitions is insisted upon, and a limited amount of blackboard work required. A neat set of mechanical drawings — constructions of important geometrical problems and a few leading problems of Descriptive Geometry — must be presented. Hence a fair degree of skill in mechanical drawing is one of the essential conditions.

Students of approved ability and proficiency in the Chandler Scientific Course of the College may elect the first year courses in the

Thayer School for their work of Senior year. At the close of the year, they may formally graduate from the College with the degree of B.S. They may then become eligible for the degree of Civil Engineer, after pursuing the regular engineering courses of the second year group. For such students, the engineering course is technically "post-graduate" only for the second or last year.

The conditions for such election are: a "standing" of at least 75 per cent, in the aggregate, in the subjects above specified, and not less than 85 per cent in at least three, nor less than 60 per cent in any one (not less than 75 per cent in Algebra, Trigonometry, and Descriptive Geometry); a special examination, as stated above; an intention to pursue, eventually, the entire engineering course, either in the next consecutive year, or as soon thereafter as the circumstances may permit. Only young men of correct habits and high character will be accepted or retained. Indulgence of an appetite for intoxicating drink will be sufficient reason for rejection of any applicant; — and such indulgence by an accepted member of the institution during his course will be sufficient cause for summary dismissal.

Students in Dartmouth College, in course of preparation for the Thayer School, are advised to take the following studies, both to meet the College requirements and to conform to present standards of qualification: —

FRESHMAN YEAR

First Semester	*Second Semester*
French 5 or 1	French 6 or 2
Graphics 1	Graphics 2
English 1	English 2
Mathematics	Mathematics
* Spanish 1	Spanish 2

Students entering the College, with the engineering courses in view, are advised to present for entrance: English, French, two years Latin, History I or II, Mathematics I and II, Physics, and Chemistry (elementary). It is advisable also to devote some time to free hand drawing, lettering, sketching from models, machinery, etc.

* Students preparing for the Thayer School, who present French for entrance to College, are allowed to take Spanish instead of German, but those students presenting German must take French in Freshman Year.

SOPHOMORE YEAR

First Semester	*Second Semeste.*
Graphics 3	Graphics 4
Mathematics	Mathematics
Physics 1	Physics 2
Physics 3	Physics 4
History 1	History 2
	Chemistry 2 for those not presenting Chemistry on entrance.

JUNIOR YEAR

First Semester	*Second Semester*
* Mathematics	Engineering 2
Chemistry 3	Chemistry 4
Astronomy 1	Astronomy 2
English 9	English 10
Economics 1	Economics 2
Graphics 5	Geology 2
Mineralogy 1	

COURSE OF STUDY AND PRACTICE

FIRST YEAR

The first year extends from the middle of July to the fourth Tuesday in April, thirty-nine weeks, excluding all intermissions, each week comprising eleven half-days, of four and a half hours, devoted to study, field-work, or office-work. In emergencies the half-day is extended to five hours or more.

A — THEORY AND PRACTICE OF SURVEYING. [This is preceded by a preliminary course of 104 hours during Junior year in College.]

* Mathematics must include Algebra, Plane and Higher Geometry, Trigonometry, Analytical Geometry, and the Calculus. Short courses in Differential Equations and Determinants are strongly urged because of their applications in the theory of electrotechnics.

1. INSTRUMENTS — Engineer's transit, wye-level, dumpy level, prismatic compass, and sextant; theory of and perfecting of all adjustments not required to be made by the maker; determining magnifying power of telescopes, sensitiveness of spirit-levels and compass needles, etc.

2. PRELIMINARY PRACTICE, until a required degree of precision is attained, and in which each student shall, by himself, or as one of a party, do a piece of test work of each of the following kinds with satisfactory precision: differential levelling; angle measurement in a small scheme of triangulation which is the basis of a systematic plan of survey for the season; a simple land survey involving ordinary measurement of lines and angles; measurement of a baseline 1500 feet or more in length by steel tape and method adequate to secure precision measured by a probable error not greater than 1 in 400,000; solar observations with engineer's transit for azimuth.

3. GENERAL PRACTICE — A topographical survey for a small contour map, including part of a village or town; a stadia survey of two to four or more miles making a closed circuit for checks; the routine of an ordinary railroad survey, preliminary and location, with some special practice in locating easement curves; some practice with the aneroid barometer, prismatic compass, and hand-level in reconnaissance. The office work includes the most approved methods of computing, use of planimeter and slide-rule, or more precise calculating machine, mapping, and tracing.

4. SPECIAL METHODS and instruments: — use of the plane-table, photography in surveying, geodetical surveying, and special practice relating to city and underground surveys, etc., can only be briefly considered in the class-room, for the most part. Practice in these specialties is nearly all beyond the domain of the School; the details are readily mastered in the future emergency by a proficient in what has preceded.

July 15 to Nov., 154 half-days.

B — MECHANICS AND APPLICATIONS. Principles of kinematics, statics, and kinetics; data and laws of friction; elements of mechanism; important applications in the stability of structures, machine design, operation of hoisting machinery, action of the locomotive engine, etc. 70 half-days.

C — MATERIALS OF ENGINEERING. 1. Physical and chemical properties and production of limes, cements, mortars, natural and artificial stone, timber, iron, steel, zinc, copper, aluminum, etc.; durability, preservative materials; a brief course in Mineralogy. 2. Mechanical properties, analytically and experimentally treated. 3. Laboratory tests of cements, iron, steel, wood, and other materials. 70 half-days.

A testing machine of sufficient capacity for tension, compression, and bending stress, affords sufficient practical illustration of the mechanics of materials in a prescribed series of tests made by each student. Several series of cement tests are carried out each year by groups of two or three, and written reports of these are made to the Instructor in proper form.

D — ORDINARY AND SPECIAL STRUCTURAL WORK AND OPERATIVE DETAILS. Course begun: Elementary courses on stone-cutting, masonry and foundations, arches and other masonry structures. 36 half-days.

E — FRAMED STRUCTURES: — TRUSSES FOR ROOFS AND BRIDGES, BUILDING SKELETONS, ETC. Course begun: — Graphical statics and other analysis applied to girders and simple trusses. Ordinary and essential details. One or two simple designs. 40 half-days.

G — ROADS, RAILROADS, AND TRANSPORTATION IN GENERAL. Course begun: — Roads, streets, and pavements, — construction and maintenance. 20 half-days.

L — ELECTRO-TECHNICS. Course begun. 39 half-days.

SECOND YEAR

The second year covers thirty effective weeks, of eleven half-days each, from about September 15 to last Tuesday in April.

D — (concluded). Framing in wood and metal; advanced reading on masonry and foundations; theory of retaining walls; dams; chimneys; concrete-steel; fire-proof and slow-burning construction; renewals and enlargements. Engineering contracts and specifications. Auxiliary work and machinery. Inspection. 55 half-days.

E — (concluded). Analysis of stresses in trusses, framed arches, stone arches, and suspension bridges; details and maintenance. Frames of tall buildings. Tours for inspection. One design worked out. 44 half-days.

F — ROCKWORK, TUNNELING, AND MINING. Outlines of geology, — vacation reading. Explosives and blasting; special appliances and methods in subterraneous works. Reading and lectures. 12 half-days.

Copper mines and furnaces in neighboring towns in Vermont, formerly very extensively worked, afford good object lessons in mining and metallurgy.

G — (concluded). Economics of location, construction, and maintenance of railways. A brief study of street railways (electric and cable traction, etc.), mountain railways, telpherage, and marine transportation. 30 half-days.

Tuck School lectures on history and theory of transportation and on railroad operation and administration.

H — HYDRAULIC ENGINEERING. Statics and dynamics of fluids; principles and data of hydraulics; collection, storage, purification, and distribution of water for town supply, power, and irrigation. Hydraulic motors; theory, construction, and operation; development of water-power. Gauging of Connecticut River. Measurements of flow by weirs and nozzles, of efficiency of motors, friction in pipes, etc. 50 half-days.

The Hanover Waterworks, constructed at a cost of $65,000, affords all needed conditions for hydraulic experiments under a head of 190 feet, in a laboratory equipped for all such operations of recognized importance. It is also an example of successful construction and operation, including a reservoir of 135,000,000 gallons capacity, a dam 720 feet long, gate-house, and main and distribution system of about 8 miles of pipe, all of which is available for inspection and for study of rainfall and its actual collection, water-ram in the pipes, efficiency of fire-streams, etc.

I — HEAT, HEAT ENGINES, AND POWER. Principles of Thermodynamics; fuels, and their combustion; steam. Heat engines: construction and operation of typical forms; application of laws. Development and transmission of power. 30 half-days.

The central steam-heating system of the College, serving 29 buildings, affords opportunity for studying efficiency of boilers and furnaces, at times when regular tests are made. The mills at Wilder, near by on the Connecticut River, give abundant facilities for studying the operation of a large water-power plant. Arrangements have been made for conducting tests of water-wheels, gauging flow in flumes, testing fire-pumps, etc., at these works. In the study of development of power, courses H and L are necessarily partly concurrent.

J — SANITARY ENGINEERING. Drainage and sewerage; systems and appliances; governing principles. Heating and ventilation. Special study of "Separate Systems" and methods of sewage disposal. Sand filtration of water and sewage. 30 half-days.

The village has three separate systems of sewerage, one built by the College and adapted to a suitable disposal plant hereafter. Successful examples of heating and ventilation may be studied in the new buildings of the College. A set of model sand filters has been in operation for some years at the Thayer School building, and those who take special interest in the problem of the purification of water supply as affected by micro-organisms may arrange for such studies so far as time will permit.

K — CANALS, IMPROVEMENT OF RIVERS AND HARBORS. Principles; surveys and observations; construction in different cases, — means and methods of procedure. (Briefly by reading and lectures.)

L — PRINCIPLES OF APPLIED ELECTRICITY. In this course, the method of instruction aims to impart a concise, practical knowledge of fundamental laws and phenomena, and of the best modern types of electrical apparatus, as to their design, construction, and operation, — all adapted to meet the demands of actual practice.

The recitations deal with the analysis of the magnetic field and lines of force; the magnetic circuit; properties of the electric current; electro-magnets; electro-magnetic induction; electrical units; energy of the electric circuit, and the application of the foregoing to primary and storage cells, motors and dynamos, telephone and telegraph, electric lighting and transformers.

The laboratory exercises are arranged to show the construction and use of the more important measuring instruments, galvanometers, voltmeters, ammeters, wattmeters, and to give practice in testing for resistance and insulation.

Supplementary lectures will deal more specifically with the construction, operation, and characteristics of motors, dynamos, and transformers; storage batteries; alternating currents; electrical transformation; transmission and distribution of energy. 80 half-days, including 36 half-days in the first year.

THESIS WORK in connection with one or more of the courses, and about a week of exclusive time. Some of the courses of this year are so interdependent that they are pursued concurrently; hence the time allotments stated are only approximate.

BUSINESS RELATIONS OF THE ENGINEER. Arrangement is made for attendance of Thayer School students upon lectures given in the Tuck School of Administration and Finance, upon the law of contracts, and upon organization of industrial plants, etc. On the other hand Tuck School students are invited to participate with Thayer School students in such parts of courses G and K as are appropriate to their own courses of study.

METHOD OF INSTRUCTION. PRACTICE. During the first year, instruction is given chiefly by daily recitations from text-books and ample practice in field and laboratory. During the second year the character and range of subjects call for wider reading of treatises and current technical literature, which is promoted by full programmes of the courses, and use of indexes.

The amount of field-work and other practice is made sufficient only to elucidate and emphasize the more important principles. Tours, for the study and inspection of works in progress or completed, are made when expedient. Visits have been made to Boston, Lawrence, Lowell, Worcester, Holyoke, New York, etc., and have included the construction of the first Brooklyn suspension bridge, steel works, sewage disposal works at Worcester and Clinton, works of the Mass. Metropolitan Water Board at Spot Pond, Sudbury District, Oakdale and Clinton, the principal dams and hydraulic works of New England, mines, bridge-works, large pumping plants, Massachusetts Experiment Station.

SUMMER WORK-PERIOD AND INTERMEDIATE YEAR. In recent years opportunities for summer employment have exceeded the supply of available young men. In most cases the students are qualified only for quite subordinate positions as draftsmen, assistants in city engineers' offices, on railway surveys or maintenance, U. S. Government surveys, etc. The advantages from such practice vary with the opportunity, character, and aptitude, and previous experience of the man. Some find it necessary or desirable to continue in such employment during the entire following year. These are entered in the Annual and College Catalogue as a non-resident division for an Intermediate Year.

U. S. CIVIL SERVICE EXAMINATIONS. The U. S. Civil Service Commission has arranged to hold an examination annually at Hanover, in April, for the convenience of applicants from the student body.

The positions for which students of the THAYER SCHOOL OF CIVIL ENGINEERING are eligible are as follows: — Aid, Coast and Geodetic Survey, assistant topographer, draftsman, civil engineer and draftsman engineering, and hydrographic aid, U. S. Geological Survey. The last two are usually possible only for second-year students candidates for the degree of C. E.

TERMS, EXAMINATIONS, AND EXPENSES

TERMS, EXAMINATIONS, ETC. The first year is divided into two terms by the holiday recess. The Summer work-period extends from the last week in April to Sept. 15. The last year also has a recess during the holidays, and is concluded by a final general examination of some days, after the pattern of the U. S. Government examinations for Civil Engineer, U. S. Navy. The graduating THESES are submitted to the BOARD OF OVERSEERS, before whom the candidates for the Degree of Civil Engineer present themselves on the last Tuesday in April, when the degrees are formally conferred.

Tuition is one hundred and twenty-five dollars per annum, one-half to be paid each term in advance. There is no provision for pecuniary aid. The annual expenses for an economical student will vary not far from four hundred dollars, including tuition, books and stationery, board, fuel, light, and drawing instruments.

Any student who fails to maintain an average of at least 75 per cent during the first year of the THAYER SCHOOL work will not be allowed to enter upon the courses of the second year, nor be entered upon the College Catalogue as students of an Intermediate year.

The THAYER SCHOOL ANNUAL, published in November, 1905, contains further information relating to the work of the institution, its graduates, etc. This will be sent, and inquiries answered, on application to the President, or

PROFESSOR ROBERT FLETCHER, *Director.*

MEDICAL SCHOOL

CALENDAR

1906

August 15 . . . . Third and Fourth Year Courses began.
September 20 . . . First and Second Year Courses began.

Recess from December 20, 10.00 A.M., *to January* 3, *inclusive.*

1907

March 29 . . . . Third and Fourth Year Courses end.
Examinations by Delegates.
Graduating Exercises.

Recess from April 3, 10.00 A.M. *to April* 17, *inclusive.*

June 26 . . . . . First and Second Year Courses end.
August 6 . . . . Third and Fourth Year Courses begin.
September 19 . . . First and Second Year Courses begin.

OFFICE HOURS

DEAN — William Thayer Smith — 9 School St., 1.30 P.M. and 7 P.M., daily.

MEDICAL SCHOOL

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D. PRESIDENT.

WILLIAM THAYER SMITH, M.D., LL.D., DEAN *and Professor of Physiology.* Hanover.

GILMAN DUBOIS FROST, A.M., M.D., SECRETARY *and Professor of Anatomy.* Hanover.

HENRY MARTYN FIELD, A.M., M.D., *Professor Emeritus of Therapeutics.* Pasadena, Cal.

PHINEAS SANBORN CONNER, M.D., LL.D., *Professor Emeritus of Surgery.* 215 W. 9th Street, Cincinnati.

CHARLES BEYLARD GUERARD DE NANCRÈDE, M.D., LL.D., *Professor of Surgery.* Ann Arbor, Mich.

EDWIN JULIUS BARTLETT, A.M., M.D., *Professor of Chemistry.* Hanover.

TILGHMAN MINNOUR BALLIET, A.M., M.D., *Professor of Therapeutics.* 3709 Powelton Ave., Philadelphia.

WILLIAM PATTEN, PH.D., *Professor of Biology* (*Zoology*). Hanover.

JOHN MARTIN GILE, A.M., M.D., *Professor of the Science and Practice of Medicine.* Hanover.

COLIN CAMPBELL STEWART, PH.D., *Associate Professor of Physiology.* Hanover.

HOWARD NELSON KINGSFORD, M.D., *Professor of Pathology and Bacteriology.* Hanover.

JOHN ORDRONAUX, M.D., LL.D., *Professor of Medical Jurisprudence.* Glen Head, L. I.

GRANVILLE PRIEST CONN, A.M., M.D., *Professor of Hygiene.* Concord, N. H.

EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.* 419 Boylston St., Boston.

GEORGE ADAMS LELAND, A.M., M.D., *Professor of Otolaryngology.* 669 Boylston Street, Boston.

MYLES STANDISH, A.M., M.D., *Professor of Ophthalmology.* 6 St. James Ave., Boston.

JAMES RIDDLE GOFFE, M.D., *Professor of Gynecology.* 616 Madison Ave., New York.

JOHN OSBORN POLAK, M.S., M.D., *Professor of Obstetrics.* 287 Clinton Ave., Brooklyn, N. Y.

HARVEY PARKER TOWLE, A.B., M.D., *Professor of Dermatology.* 453 Marlborough St., Boston.

WILLARD HUNTER HUTCHINGS, M.D., *Lecturer in Surgery.* 50 Lafayette Ave., Detroit, Mich.

PERCY BARTLETT, A.B., M.D., *Instructor in Anatomy.* Hanover.

GEORGE RICHARD LYMAN, A.M., *Assistant Professor of Biology (Botany).* Hanover.

CHARLES ERNEST BOLSER, PH.D., *Instructor in Chemistry.* Hanover.

GEORGE SELLERS GRAHAM, B.L., M.D., *Instructor in Pathology.* Hanover.

DELEGATES FROM THE NEW HAMPSHIRE MEDICAL SOCIETY

WILLIAM HENRY LEITH, M.D., Lancaster, N. H.
WILLIAM JOHNSTON BEATTIE, M.D., Littleton, N. H.

DELEGATES FROM THE VERMONT MEDICAL SOCIETY

CHARLES SOLOMON CAVERLY, M.D., Rutland, Vt.
HERBERT SALES CARVER, M.D., Marshfield, Vt.

STUDENTS

FOURTH YEAR

Name	Residence	Room
Carroll, Henry Gerald	*Peabody, Mass.*	10 Lebanon St.
Ellis, Arthur Henry	*North Billerica, Mass.*	18 S. College St.
Howland, Clifford	*Newark, N. J.*	10 Lebanon St.
Huse, Ernest Leslie	*Newton Junction, N.H.*	13 E. Wheelock St.
Littlewood, Thomas	*Boston, Mass.*	18 S. College St.
Mangurian, Armen Steven, A.B.	*Hadjin, Turkey*	17 S. Main St.
Manning, Patrick John	*Hyde Park, Mass.*	10 Lebanon St.
Nealley, Willis Grafton	*South Berwick, Me.*	19 Maple St.
Norton, Daniel Capron, B.S.	*New Britain, Conn.*	4 School St.
Phelps, Olney Draper, A.B.	*Warren, Mass.*	9 College St.
Robertson, Charles Warner, Ph.G.	*Bridgeport, Conn.*	9 W. South St.
Thompson, Howard Edward	*Bethlehem, N. H.*	9 W. South St.

THIRD YEAR

Crittendon, George Alanson	*Otis, Mass.*	19 Maple St.
Gane, William Howard	*White River Junction, Vt.*	Davison Block
Gilbert, Oscar Bowen	*Woonsocket, R. I.*	4 School St.
Giles, Raymond Larkin	*Salem, Mass.*	25 S. Main St.
Kenney, John Joseph	*Franklin, Mass.*	19 Maple St.
Knox, Howard Andrew	*Coventry, Vt.*	25 S. Main St.
Loder, Halsey Beach, B.S.	*Thetford, Vt.*	4 School St.
Quigley, William Sullivan	*Charlestown, Mass.*	10 Lebanon St.
Towle, Murray Hanson	*Northwood Ridge, N. H.*	5 W. South St.

SECOND YEAR

Alling, Marshall Louis, B.S.	*Kensington, Conn.*	23 N. Main St.
Bodwell, William Mottimer, A.B.	*Portland, Me.*	41 S. Main St.
Chase, Phillips Maurice, B.S.	*Galesburg, Ill.*	ΦΔΘ House
Clough, William Plummer	*New London, N. H.*	41 S. Main St.
Connell, Thomas Michael, A.B.	*East Weymouth, Mass.*	8 College St.
Gage, Jesse Witherspoon, A.B.	*Manchester, N. H.*	23 N. Main St.
Hazen, Harry Bliss	*White River Junction, Vt.*	10 W. South St.
Herr, Edward Albert, A.B.	*Waterbury, Conn.*	23 N. Main St.

Name	Residence	Room
Larrabee, Edward Goodell	*Auburn, Me.*	10 W. South St.
Laton, George Peavey, A.B.	*Nashua, N. H.*	X Φ House
Nolan, John Hugh	*New Britain, Conn.*	3 College St.
Nolan, William Joseph	*New Britain, Conn.*	3 College St.
Pillsbury, Fitzroy Farnsworth	*Saco, Me.*	9 W. South St.
Scribner, Frederick Parker, A.B.	*Raymond, N. H.*	25 Lebanon St.
Uniac, Thomas Vincent	*Randolph, Mass.*	8 College St.
Wilson, Homer Barnet	*Sanbornton, N. H.*	5 W. South St.

FIRST YEAR

Baldwin, Fred Harold	*Somerville, Mass.*	20 Sanborn
Black, Dennis Leo	*Nashua, N. H.*	10 W. South St.
Cochrane, Robert Carlyle	*Somerville, Mass.*	5 Proctor
Davis, Stillman George	*Nashua, N. H.*	60 Lebanon St.
Dowd, Ambrose Francis	*Hillsboro Bridge, N. H.*	7 W. South St.
Dunham, Harry Bartlett	*Campello, Mass.*	10 Maple St.
Early, Philip Austin	*Newton Lower Falls, Mass.*	2 Crosby
Felt, Paul Revere, A.B.	*Hillsboro Bridge, N. H.*	8 College St.
Field, Thomas Sullivan	*Nashua, N. H.*	Dragon House
Fowler, Earle Bloodgood	*Oak Park, Ill.*	5 Proctor
Haley, Paul	*Medford, Mass.*	4 Bartlett
Howard, Henry Dwight, Jr.	*So. Londonderry, Vt.*	9 College St.
Jewett, John Vernon	*Danvers, Mass.*	44 College St.
Kibling, Alfred Lorenzo	*West Lebanon, N. H.*	21 School St.
Kilburn, Ira Nelson	*Holyoke, Mass.*	9 W. South St.
Langill, Morton Howard	*Hanover, N. H.*	21 Allen St.
Locke, William Maynard	*Rutland, Vt.*	40 S. Main St.
McKendree, Charles Alphonso	*Manchester, N. H.*	1 Bartlett
Mathews, Frank Harrison	*Manchester, N. H.*	1 S. Park St.
Perkins, Ralph Sherburne	*Pittsfield, N. H.*	19 Maple St.
Perry, Thomas Daniel	*Burlington, Vt.*	Dragon House
Prouty, Ira Humphrey	*Keene, N. H.*	Φ Δ Θ House
Reilly, Thomas Edward	*Randolph, Mass.*	34 Reed
Storrs, Harry Carl	*Hanover, N. H.*	42 S. Main St.
Trickey, Charles Lemuel	*Dover, N. H.*	41 S. Main St.

SUMMARY

FOURTH YEAR	12
THIRD YEAR	9
SECOND YEAR	16
FIRST YEAR	25
TOTAL	62

REQUIREMENTS FOR ADMISSION

Applicants for admission to this School must have

(*a*) graduated from a registered College, or

(*b*) satisfactorily completed a full course in a registered Academy or High School, or

(*c*) had a preliminary education considered and accepted as fully equivalent.

Upon bringing evidence of such preparation they will be received on certificate, provided the requirements in Latin, Chemistry, and Physics, specified below, have been met.

All other candidates for admission, unless they can show by certificate from some approved fitting school or college that they have passed examinations in a part of the requirements, will be examined in all the following subjects:

English, History I or II, Mathematics, Latin, Chemistry, and Physics, according to specifications given below.

SUBJECTS WITH SPECIFICATIONS

ENGLISH —

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation.

English Grammar. — To secure the first end, training in grammar and the simpler principles of rhetoric, and the writing of frequent compositions are essential. The candidate must be able to spell, capitalize, and punctuate correctly. He must show a practical knowledge of the essentials of English grammar, including ordinary grammatical terminology, inflections, syntax, the use of phrases and clauses; a thorough training in the construction of the sentence; and familiarity with the simpler principles of paragraph division and structure.

Reading. — To secure the second end, the reading of a certain number of books is prescribed. The list is intended to give the candidate

the opportunity of reading, under intelligent direction, a number of important pieces of literature. The prescribed books are divided into two groups as follows:

A

The candidate should read the books prescribed below with a view to understanding and enjoying them. He will be expected to show a reasonable degree of familiarity with their substance. The form of examination will usually be the writing of paragraphs on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper.

For Students entering in 1907 and 1908: Shakespeare's Macbeth and The Merchant of Venice; the Sir Roger de Coverly Papers in the Spectator; Scott's Ivanhoe and The Lady of the Lake; Irving's Life of Goldsmith; Coleridge's The Ancient Mariner; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's The Vision of Sir Launfal; George Eliot's Silas Marner.

* For Students entering in 1909: Shakespeare's The Merchant of Venice and Julius Cæsar; Bunyan's The Pilgrim's Progress (part I); The Sir Roger de Coverly Papers in the Spectator; Scott's The Lady of the Lake and Ivanhoe; Irving's Sketch Book; Macaulay's Lays of Ancient Rome; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; George Eliot's Silas Marner.

B

The candidate should read the books prescribed below with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination is not designed, however, to require minute drill in difficulties of verbal expressions, unimportant allusions, and technical details.

For Students entering in 1907 and 1908: Shakespeare's Julius

* The list for the class entering in 1909 is selected from the list adopted by the Conference on Uniform Entrance Requirements in English, at a meeting held in Newark, N. J., February 22, 1905. Candidates may make other selections from that list, provided they give notice of their intentions on or before the first day of February preceding the examination.

Cæsar; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Macaulay's Essay on Addison, and Life of Johnson.

For Students entering in 1909: Shakespeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

HISTORY (including Historical Geography) —

Either of the two following courses:

I. *Ancient History.* — This may cover the general field to 800 A.D.; but must in any case cover at least Greek History to the death of Alexander, with due reference to Greek life, literature, and art, and Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History.* — English History with due reference to social and political development; American History with the elements of Civil Government.

In each of the above courses, the following requirements must be met: (1) At least three recitations per week for two years, or five recitations per week for one year; (2) Such general knowledge of the whole course as may be required from the study of accurate text-books amounting to not less than 600 pages; (3) A full knowledge derived from suitable additional reading, in books of a less elementary nature, amounting to at least 600 pages; (4) Comparisons between historical characters, periods and events, and in general the power to combine in orderly fashion the results of reading, and to exercise the judgment as well as the memory; (5) Geographical knowledge tested by the location of places, movements, and territorial changes on an outline map (by physical features wherever possible as well as by political features).

MATHEMATICS —

Algebra — The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry. — With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

LATIN —

The ability to translate at sight easy Latin prose.

This is the equivalent of a two years' course in an approved High School.

CHEMISTRY —

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i–v (exclusive of Class i, part ii), or equivalent. A certified note-book of laboratory work must be presented. The student should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS —

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. This note-book should bear the certification of the instructor, and be presented for inspection at the time of the entrance examinations to the School.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

Any one of the following texts or manuals may be recommended for use in secondary schools preparing students for the Medical School: Elements of Physics, Carhart and Chute; Elements of Physics, Crew; A Text-Book of Physics, Hall and Bergen; Outlines of Physics, Nichols; Elements of Physics, Gage.

A student who has had Physics 1 and 2 in Dartmouth College or its equivalent will be admitted without condition in Physics.

The examinations for admission to the First or entering Class will be held in Room D, Tuck Building, as follows: —

Chemistry	1.30–3.30 P. M.,	Sept. 13
History II	4.00–6.00 P. M.	" 13
Latin	8.00–10.00 A. M.	" 14
English	1.30–3.30 P. M.	" 14
Physics	4.00–6.00 P. M.	" 14
History I	8–10 A. M.	" 16
Geometry	1.30–3.30 P. M.	" 16
Algebra	8.00–10.00 A. M.	" 17

Each candidate taking an examination in Chemistry or Physics must present a laboratory note-book certified by his teacher.

ADMISSION TO THE SECOND YEAR

Candidates for admission to the Second Year must pass on September 16, 17, and 18, 1907, the examinations in Human Anatomy, Physiology, Inorganic Chemistry, Histology, and Bacteriology already taken by that class.

ADMISSION TO THE THIRD YEAR

Candidates for admission to the Third Year must pass on August 1, 2, and 3, 1907, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Materia Medica, Pathology, Histology, and Bacteriology already taken by that class.

Such candidates should be in town August 1.

ADMISSION TO THE FOURTH YEAR

Candidates for admission to the Fourth Year must pass the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, Bacteriology, Materia Medica, Pathology, and Physical Diagnosis, already taken by that class.

Such candidates should be in town August 1.

Students in the Academic Department of Dartmouth College, may, at the beginning of their Senior year, matriculate in the Medical School, and take during Senior year the work and the examinations of the first year of the Medical School.

They will thus be able to earn the two degrees in seven years.

Students desiring to pass from the Academic Department of the College to the Medical School must bring the certificate of the President of the College, with his approval of such transfer.

COURSE OF STUDY

The One Hundred and Eleventh Annual Course will be opened on Tuesday, the sixth day of August, 1907.

For the third and fourth classes, the session beginning August 6, 1907, continues to March 29, 1908. For the first and second classes, the session beginning September 19, 1907, continues nine months to June 24, 1908.

The teaching is by lectures, recitations, laboratory work, and clinics. Students of the third and fourth classes are kept in close touch with hospital work and have daily bedside instruction.

The course covers four years with examinations on each year's work at its conclusion. These examinations, if satisfactory, will stand as final. At the end of the course an oral examination is held by delegates from the Medical Societies of New Hampshire and Vermont.

FIRST YEAR

Chemistry, Biology, Comparative Anatomy, Human Histology, Human Anatomy, Physiology, Bacteriology.

SECOND YEAR

Systematic Anatomy, Physiology, Medical Chemistry, Pathology, Embryology, Materia Medica, Analysis of blood and urine.

THIRD YEAR

Regional Anatomy, Pathology, Obstetrics, Surgery, Medicine, Therapeutics, Physical and Differential Diagnosis, Gynecology.

FOURTH YEAR

Therapeutics, Surgery, Medicine, Obstetrics, Gynecology, Mental Diseases, Medical Jurisprudence, Hygiene, Ophthalmology, Laryngology, Otology, Diseases of the Skin.

SCHEDULE, 1906-1907

FIRST YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
A.M. 8	Chemistry. Laboratory or Recitation. Dr. Bolser.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.	Histology. Section II. Laboratory. Dr. Graham.	Physiology. Laboratory. Dr. Stewart.	Chemistry. Laboratory or Recitation. Dr. Bolser.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.
9						
10	Histology. Section I. Laboratory. Dr. Kingsford.	Chemistry. Laboratory. Dr. Bolser.	Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr. P. Bartlett.	Histology. Section I. Laboratory. Dr. Kingsford.	Chemistry. Laboratory. Dr. Bolser.
11			Physiology. Lecture. Dr. Stewart.			
P.M. 1	Biology. Laboratory. Prof. Lyman.	Histology and Bacteriology. Section I. Laboratory. Dr. Graham.		Histology and Bacteriology. Section II. Laboratory. Dr. Graham.	Biology. Laboratory. Prof. Lyman.	Histology and Bacteriology Sections I & II. Recitation. Dr. Kingsford.
2						

FIRST YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Semester I.	Semester II.	Semester I.	Semester II.	Semester I.	Semester II.
Histology. Section II. Laboratory. Dr. Graham.	Physiology. Laboratory. Dr. Stewart.	Chemistry. Laboratory or Recitation. Dr. Bolser.	Comparative Anatomy. Laboratory or Lecture. Dr. Patten.	Histology. Section II. Laboratory. Dr. Graham.	Physiology. Laboratory. Dr. Stewart.
Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr. P. Bartlett.	Histology. Section I. Laboratory. Dr. Kingsford.	Chemistry. Laboratory. Dr. Bolser.	Human Anatomy. Recitation. Dr. Frost.	Human Anatomy. Recitation. Dr. P. Bartlett.
Physiology. Lecture. Dr. Stewart.				Physiology. Lecture Dr. Stewart.	
	Histology and Bacteriology. Section II. Laboratory. Dr. Graham.	Biology. Laboratory. Prof. Lyman.	Histology and Bacteriology. Section I. Laboratory. Dr. Graham.		

SECOND YEAR

<table>
<tr><th></th><th colspan="2">MONDAY.</th><th colspan="2">TUESDAY.</th><th colspan="2">WEDNESDAY.</th></tr>
<tr><th>Hour.</th><th>Semester I.</th><th>Semester II.</th><th>Semester I.</th><th>Semester II.</th><th>Semester I.</th><th>Semester II.</th></tr>
<tr><td>A.M.
8</td><td colspan="2" rowspan="2">Physiology.
Laboratory.
Dr. Stewart.</td><td rowspan="2">Embryology.
Laboratory.
Dr. Patten.</td><td>Pathology.
Lecture
or
Recitation.
Dr. Kingsford.</td><td colspan="2" rowspan="2">Physiology.
Laboratory.
Dr. Stewart.</td></tr>
<tr><td>9</td><td>Materia
Medica.
Recitation.
Dr. P. Bartlett.</td></tr>
<tr><td>10</td><td colspan="2">Anatomy.
Recitation.
Dr. P. Bartlett.</td><td colspan="2" rowspan="2">Pathology.
Laboratory.
Dr. Kingsford.</td><td colspan="2">Anatomy.
Recitation.
Dr. P. Bartlett.</td></tr>
<tr><td>11</td><td>Pathology.
Lecture
or
Recitation.
Dr. Kingsford.</td><td></td><td>Pathology.
Lecture
or
Recitation.
Dr. Kingsford.</td><td></td></tr>
<tr><td>P.M.
1</td><td colspan="2" rowspan="2">Analysis of Blood.
Dr. Kingsford — To Nov. 1.

Dissection.
Dr. P. Bartlett.
Nov. 1 — Apr. 1.</td><td colspan="2" rowspan="2">Medical
Chemistry.
Laboratory.
Dr. E. J. Bartlett.</td><td colspan="2" rowspan="2">Dissection.
Laboratory.
Dr. P. Bartlett.</td></tr>
<tr><td>2</td></tr>
<tr><td></td><td colspan="2">Analysis of Urine.
Dr. Kingsford.
Apr. 1 — June 18.</td><td colspan="2"></td><td colspan="2"></td></tr>
</table>

SECOND YEAR

<table>
<tr><th colspan="2">THURSDAY.</th><th colspan="2">FRIDAY.</th><th colspan="2">SATURDAY.</th></tr>
<tr><th>Semester I.</th><th>Semester II.</th><th>Semester I.</th><th>Semester II.</th><th>Semester I.</th><th>Semester II.</th></tr>
<tr><td rowspan="2">Embryology.
Laboratory.
Dr. Patten.</td><td>Pathology.
Lecture
or
Recitation.
Dr. Kingsford.</td><td colspan="2" rowspan="2">Physiology.
Laboratory.
Dr. Stewart.</td><td rowspan="2">Embryology.
Laboratory.
Dr. Patten.</td><td>Pathology.
Lecture
or
Recitation.
Dr. Kingsford.</td></tr>
<tr><td>Materia
Medica.
Recitation.
Dr. P. Bartlett.</td><td>Materia
Medica.
Recitation.
Dr. P. Bartlett.</td></tr>
<tr><td colspan="2" rowspan="2">Pathology.
Laboratory.
Dr. Kingsford.</td><td colspan="2">Anatomy.
Recitation.
r. P. Bartlett.</td><td colspan="2" rowspan="2">Pathology.
Laboratory.
Dr. Kingsford.</td></tr>
<tr><td colspan="2">Medical Chemistry.
Recitation.
Dr. E. J. Bartlett.</td></tr>
<tr><td colspan="2">Medical
Chemistry.
Laboratory.
Dr. E. J. Bartlett.</td><td colspan="2">Analysis of Blood.
Dr. Kingsford — To Nov. 1.

Dissection.
Dr. P. Bartlett.
Nov. 1 — Apr. 1.

Analysis of Urine.
Dr. Kingsford.
Apr. 1 — June 18.</td><td colspan="2"></td></tr>
</table>

THIRD YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.
A.M. 8	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Minor Surgery. Demonstration. Dr. P. Bartlett.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.
9	Surgery. Lecture. Dr. Hutchings.	Anatomy. Recitation. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.		Surgery. Lecture. Dr. Hutchings.	Anatomy. Recitation. Dr. Frost.
10	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.
11	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Surgical Clinic. Dr. Smith.	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Gile.
P.M.	Lecture.	Lecture.				Pathology. Demonstration. Dr. Kingsford.
1.30 to 2.30	Ophthalmology. Dr. Standish. Aug. 15 to Aug. 25. Otolaryngology. Dr. Leland. Sept. 10 to Sept. 20. Dermatology. Dr. Towle. Sept. 12 to Sept. 26. Gynecology. Dr. Goffe. Sept. 17 to Sept. 29.	Obstetrics. Dr. Polak. Oct. 1 to Oct. 13. Mental Disease. Dr. Cowles. Aug. 27 to Sept. 10. Medical Jurisprudence. Dr. Ordronaux. Hygiene. Dr. Conn.	Same as Monday.		Same as Monday.	
2.30 to 4.30	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.	Surgical Clinic. Dr. Hutchings.	Dissection. Laboratory. Dr. P. Bartlett.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.

THIRD YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.
Therapeutics. Lecture. Dr. Balliet.	Minor Surgery. Demonstration. Dr. P. Bartlett.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Minor Surgery. Demonstration. Dr. P. Bartlett.
Surgery. Lecture. Dr. Hutchings.	Minor Surgery. Demonstration. Dr. Smith.	Surgery. Lecture. Dr. Hutchings.	Anatomy. Recitation. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Minor Surgery. Demonstration. Dr. Smith.
Therapeutics. Lecture. Dr. Balliet.	Gynecology. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diagnosis. Demonstration. Dr. Gile.
Surgery. Lecture. Dr. Hutchings.	Gynecological Clinic. Dr. Gile.	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Frost or Dr. Gile.	Surgery. Lecture. Dr. Hutchings.	Surgical Clinic. Dr. Smith.
Same as Monday.		Same as Monday.			
Surgical Clinic. Dr. Hutchings.	Dissection. Laboratory. Dr. P. Bartlett.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in laboratory and wards.		

FOURTH YEAR

	MONDAY.		TUESDAY.		WEDNESDAY.	
Hour.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.
A.M. 8	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.
9	Surgery. Lecture. Dr. Hutchings.	Surgery. Recitation. Dr. Smith.	Surgery. Lecture. Dr. Hutchings.	Diseases of Children. Recitation. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Surgery. Recitation. Dr. Smith.
10	Therapeutics. Lecture. Dr. Balliet.	Diseases of the Nervous System. Recitation. Dr. Frost.	Therapeutics. Lecture. Dr. Balliet.	Surgical Clinic.	Therapeutics. Lecture. Dr. Balliet.	Diseases of the Nervous System. Recitation. Dr. Frost.
11	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Dr. Smith.	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Gile.
P.M.	Lecture.	Lecture.				
1.30 to 2.30	Ophthalmology. Dr. Standish. Aug. 15 to Aug. 25. Otolaryngology. Dr. Leland. Sept. 10 to Sept. 20. Dermatology. Dr. Towle. Sept. 12 to Sept. 26. Gynecology. Dr. Goffe. Sept. 17 to Sept. 29.	Obstetrics. Dr. Polak. Oct. 1 to Oct. 13. Mental Disease. Dr. Cowles. Aug. 27 to Sept. 10. Medical Jurisprudence. Dr. Ordronaux. Hygiene. Dr. Conn.	Same as Monday.		Same as Monday.	
2.30 to 4.30	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in wards.	Surgical Clinic. Dr. Hutchings.	Sections of Hospital for Clinical work in wards.	Clinic by the Lecturer of the last hour.	Sections at Hospital for Clinical work in wards.

FOURTH YEAR

THURSDAY.		FRIDAY.		SATURDAY.	
Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30.	Aug. 15 to Sept. 22.	Sept. 24 to Mar. 30
Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Medicine. Recitation. Dr. Gile
Surgery. Lecture. Dr. Hutchings.	Obstetrics. Recitation. Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Surgery. Recitation. Dr. Smith.	Surgery. Lecture. Dr. Hutchings.	Obstetrics. Recitation. Dr. Frost.
Therapeutics. Lecture. Dr. Balliet.	Gynecology. Recitation. Dr. Gile.	Therapeutics. Lecture. Dr. Balliet.	Diseases of Children. Recitation. Dr. Frost.	Therapeutics. Lecture. Dr. Balliet.	Surgical Clinic.
Surgery. Lecture. Dr. Hutchings.	Gynecological Clinic. Dr. Gile.	Surgery. Lecture. Dr. Hutchings.	Medical Clinic. Dr. Gile or Dr. Frost.	Surgery. Lecture. Dr. Hutchings.	Dr. Smith.
Same as Monday.		Same as Monday.			
Surgical Clinic. Dr. Hutchings.	Sections at Hospital for clinical work in wards.	Clinic by the Lecturer of the last hour.	Sections at Hospital for clinical work in wards.		

DEPARTMENTS OF INSTRUCTION

BIOLOGY AND COMPARATIVE ANATOMY

PROFESSORS PATTEN AND LYMAN

FIRST YEAR

1. Elementary Biology. An introductory course giving a general survey of the field of Botany, some of the fundamental principles of Biology common to plants and animals, and a comprehensive review of the physiology, morphology, and reproduction of plants, special attention being paid to the lower plants and to the relation of fungi and bacteria to putrefaction, fermentation, and disease. The laboratory work involves the constant use of the compound microscope. One lecture and two laboratory exercises of two hours each per week. (Coulter's *Plants.*) First Semester, fifty-four exercises.

PROFESSOR LYMAN.

2. Comparative Anatomy of Vertebrates. The outlines of the classification of Vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes, and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*, and the embryological text-books of Minot, Hertwig-Mark, etc.) Second Semester, fifty-four two-hour exercises.

PROFESSOR PATTEN.

SECOND YEAR

3. Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. (Minot's *Human Embryology*, Hertwig's *Embryology of Vertebrates*, McMurrick's *Development of the Human Body*. First semester, seventy-two two-hour exercises.

PROFESSOR PATTEN.

ANATOMY

PROFESSOR FROST AND DR. P. BARTLETT.

FIRST YEAR

Osteology, Arthrology, and a preliminary study of the viscera. A course of recitations and demonstrations. Preparations from the Anatomical Museum are given out for study. An opportunity is offered to follow the dissections of the human body made by the men of the Second and Third classes. The written examinations covering the work in Osteology and Arthrology are final if satisfactory. (Gray's *Anatomy*, last edition.) First and second semesters, one hundred and four exercises.

PROFESSOR FROST AND DR. P. BARTLETT.

SECOND YEAR

Study of the muscles, blood vessels, lymphatics, and nerves by systems and by regions. Recitations and occasional lectures. Demonstrations by the instructor from manikins, plates, dried and wet preparations, and the cadaver. Dissection and demonstration of at least two parts by each student to the class. (Gray, Gerrish.)

DR. P. BARTLETT.

THIRD YEAR

Study of the central nervous system and the viscera. Regional and Applied Anatomy. Lectures, recitations, and demonstrations. Dissection and demonstration of the remaining parts by the student. (Gray, Treves, Quain.) PROFESSOR FROST.

PHYSIOLOGY

PROFESSOR C. C. STEWART

FIRST YEAR

1. A course of recitations and lectures upon the essential facts of Physiology, as a preparation for the later study of the subject. First semester, fifty-four exercises.

2. A course of lectures, demonstrations, and laboratory work upon the physiology of digestion, absorption, secretion, excretion, metabolism, muscle, and nerve. Each student will perform the more important experiments for himself. Second semester, fifty-four exercises of two hours each.

SECOND YEAR

The work of the first year will be continued by lectures, recitations, demonstrations, and laboratory work upon the physiology of blood, circulation, respiration, animal heat, the nervous system, and the special senses. The work includes a short experimental course on the physiological action of drugs. Fifty-four exercises of two hours each in each semester.

The equipment of the laboratory provides a satisfactory set of apparatus for each two students. The set includes a clockwork kymograph, inductorium, moist chamber, recording and stimulating apparatus, tambours, circulation model, and many minor pieces; while for the work in chemical physiology a complete outfit of glassware, apparatus, and chemicals is provided. In addition to this the laboratory contains apparatus for demonstrations and for individual work or original investigation. Both the students' sets and the equipment of the general laboratory are being added to from time to time as the needs of the work direct.

THIRD YEAR

A course of twelve lectures on special subjects in advanced Physiology.

CHEMISTRY

PROFESSOR E. J. BARTLETT AND DR. BOLSER

FIRST YEAR

1. A systematic course, reviewing the Non-Metallic Elements rapidly, developing the more essential theories, and treating the Metallic Elements and their compounds, by lectures, recitations (Newth's *Inorganic Chemistry*), and by Qualitative Analysis in the

laboratory (W. A. Noyes's *Qualitative Analysis*). This course divides the time about equally between one-hour recitations and two-hour laboratory exercises. First and second semesters, fifty-four exercises in each, one or two hours. DR. BOLSER.

SECOND YEAR

2. (a) A short course in the more important compounds of carbon.

(b) Physiological and Medical Chemistry. A course with laboratory, lecture, and recitation work giving special attention to the carbohydrates and albumens, to Toxicology, the Chemistry of the body, and the applications of Chemistry to Medicine. First and second semesters. PROFESSOR BARTLETT.

HISTOLOGY, BACTERIOLOGY, AND PATHOLOGY

PROFESSOR KINGSFORD AND DR. GRAHAM

FIRST YEAR

1. Histology. Laboratory work with recitations. The elementary tissues are first studied, then the various organs, including special study of the brain and cord. Each student may prepare and retain sections.

Six hours in the laboratory each week, two hours' recitation.

This course extends through the first two-thirds of the year.

2. Bacteriology. Laboratory demonstrations supplemented by recitations. The aim in this course is to make it as practical as possible. Special attention is given to the examination of sputum for tubercle bacilli, to the diagnosis of diphtheria, the technic of the Widal serum diagnosis in typhoid fever, and to staining gonorrhœal pus. Each student is required to isolate a number of different organisms. Special instruction is given to any student desirous of doing research work, either in bacteriology or pathology.

Four hours in the laboratory each week, two hours' recitation.

This course follows Histology and extends through the last third of the year.

As the Medical School affords accommodation to the State Laboratory of Bacteriology the supply of pathological and bacteriological

material accessible throughout the year is unusually large. Each student has an opportunity to act as voluntary assistant for a period of four weeks, and thus may obtain special training in the routine work of bacteriological examinations and technic and in general laboratory methods.

SECOND YEAR

3. Pathology. Six hours each week of laboratory work throughout the year. Lectures, three times each week, illustrated by demonstrations of gross lesions, two hours' recitation. The laboratory work is devoted to the study of the pathological histology of inflammation, the infectious diseases, tumors, etc. The sections may be prepared and retained by the student.

4. Haematology. Two lectures and one recitation, with two hours of laboratory work each week until November first. A course in the examination, preparation and staining of blood specimens, with special reference to clinical diagnosis. Both normal and pathological blood specimens are available for examination and study.

5. Urinary Examinations. Four hours of laboratory work and three hours of lectures and recitations each week from April first to June eighteenth. This course deals with the examination of normal and pathological urines, with special relation to the full study of urinary sediments. An abundance of material is available at all times.

THIRD YEAR

6. Pathology. One hour each week, taking up special subjects with demonstrations.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR BALLIET AND DR. P. BARTLETT.

SECOND YEAR

1. Materia Medica is taught by recitations three times each week in the second semester. DR. P. BARTLETT.

THIRD AND FOURTH YEARS

2. Therapeutics. A course of sixty lectures with frequent quizzes and illustrations by the study of clinical cases at the Hospital.

PROFESSOR BALLIET.

GYNECOLOGY

PROFESSOR GOFFE AND DR. GILE

THIRD AND FOURTH YEARS

1. A course of twenty-four lectures illustrated by diagrams, supplemented by clinical teaching at the Hospital. The students make examinations of the cases presented and follow the operations and after-treatment. PROFESSOR GOFFE.

2. Recitations once a week supplemented by further clinical instruction at the Hospital through the year. Clinical material is abundant.

DR. GILE.

OBSTETRICS

PROFESSOR POLAK AND DR. FROST

THIRD AND FOURTH YEARS

1. A course of twelve lectures illustrated by diagrams and the use of manikins, with occasional quizzes. PROFESSOR POLAK.

2. Recitations with section work upon manikins by the student, two hours each week. DR. FROST.

Preparation is thus secured for a course in the Out-patient department of a Lying-In Hospital which the student is advised to take during the vacation at the end of the third year. Evidence of attendance upon eight cases of confinement is required of candidates for the degree.

3. Maternity cases are received at the Hospital, and when possible they serve to illustrate to the students in small sections the teaching and methods of obstetrics.

SURGERY

DR. HUTCHINGS, DR. SMITH, AND DR. P. BARTLETT

THIRD YEAR

1. A course in Minor Surgery given partly at the College and partly at the Hospital. Demonstrations and quizzes. Three hours each week. DR. P. BARTLETT.

THIRD AND FOURTH YEARS

2. A course of seventy-two lectures supplemented by many clinical lectures and operations at the Hospital. The student is given cases to examine and study, and makes his report before the class.
DR. HUTCHINGS.

FOURTH YEAR

3. A course of recitations with further clinical lectures and study of individual cases by the student at the Hospital. Three hours each week. DR. SMITH.

OPHTHALMOLOGY

PROFESSOR STANDISH

A course of twelve didactic lectures with many clinical lectures and operations before the class. An excellent opportunity is afforded each student to study these cases.

LARYNGOLOGY AND OTOLOGY

PROFESSOR LELAND

A course of twelve didactic lectures with clinical lectures and many operations before the class. Opportunity to study and follow the treatment of individual cases.

MEDICAL JURISPRUDENCE

PROFESSOR ORDRONAUX

A course of ten didactic lectures, expounding the relations of Law to Medicine in the various departments of municipal government and medical practice.

MENTAL DISEASES

PROFESSOR COWLES

A course of ten didactic lectures, covering the following topics:

1. The principles of mental pathology and the nature of mental symptoms.
2. Mental physiology. Imperative ideas and psychological automatism.
3. Laws of the nervous and mental mechanism; the organic sensations in mental pathology; and the psychology and pathology of the emotions; the mental symptoms of nervous exhaustion.
4. Forms of mental diseases.

HYGIENE

PROFESSOR CONN

A course of nine didactic lectures, giving instruction in the principles of sanitation and hygiene as applied to daily life and to the practice of medicine and surgery.

DERMATOLOGY

PROFESSOR TOWLE

A Course of twelve didactic lectures. It is intended to make this course a practical one with special attention to the most common diseases of the skin. The lectures will be illustrated by photographs and by clinical cases.

MEDICINE

PROFESSOR GILE AND DR. FROST

THIRD YEAR

1. Physical Diagnosis. Study of methods of examination and physical diagnosis, with enough of pathology to make the variations in the physical signs intelligible. About one-third of the course is given to lectures, one-third to recitations, and one-third to clinics. Five hours each week. PROFESSOR GILE.

2. Medicine. Lectures and recitations six hours each week. PROFESSOR GILE.

FOURTH YEAR

3. Medicine. Lectures and recitations with clinical examinations at the Hospital through the year. Six hours each week, with one or two hours additional each week of clinical examination at the Hospital. PROFESSOR GILE.

4. Diseases of children. Two recitations and one hour of clinical work each week. DR. FROST.

5. Diseases of the Nervous System. Two recitations and one hour of clinical work each week. DR. FROST.

TEXT-BOOKS

ANATOMY — Gray, Gerrish, Quain, Treves.
BACTERIOLOGY — Williams, McFarland, Crookshank.
BIOLOGY — Coulter's Plants.
CHEMISTRY — Bartlett's Laboratory Exercises, Newth's Chemistry, Bolser and Richardson's Qualitative Analysis, Holland's Medical Chemistry, Ogden's or Tyson's Urinary Analysis, Rockwood's Laboratory Manual.
COMPARATIVE ANATOMY — Wiedersheim.
DERMATOLOGY — Stelwagon, Jackson.
DICTIONARY — Gould, Duane, Dorland.
DISEASES OF CHILDREN — Holt.
DISEASES OF WOMEN — Bovée, Pryor, Dudley.
EMBRYOLOGY — McMurrick.
HAEMATOLOGY — Ewing, Cabot.
HISTOLOGY — Piersol, Stöhr.
LARYNGOLOGY — Browne's Diseases of the Throat; Barr, Diseases of the Ear; McBride, Diseases of the Throat, Nose, and Ear; Bishop, Diseases of the Ear, Nose, and Throat.
MEDICAL JURISPRUDENCE — Witthaus and Becker, Draper.
OBSTETRICS — Williams, Hirst, Lusk.
PATHOLOGY — Stengel, Ziegler, Coplin.
PHYSICAL DIAGNOSIS — Cabot, Loomis, Butler's Diagnostics.
PHYSIOLOGY — Brubaker, American Text-book of Physiology, Landois, Schäfer.
PRACTICE OF MEDICINE — Osler, Tyson, Thompson.
SURGERY — Nancrede, American Text-book of Surgery, Park, Warren, Wharton and Curtis.
THERAPEUTICS — Balliet's Notes, Wood, Bartholow.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this School examinations will be required in General Biology, Comparative Anatomy, Human Histology and Anatomy, Physiology, Medical Physics, Chemistry, and Bacteriology. At the end of two full years of the study of medicine and two courses of lectures, an examination will be required in Systematic Anatomy, Physiology, Medical Chemistry, Embryology, Materia Medica, and Pathology. At the end of three full years of the study of medicine and three courses of lectures, an examination will be required in Systematic and Regional Anatomy, Pathology, Physical Diagnosis, Therapeutics, Minor Surgery and Obstetrics.

Certificates ot Examinations passed at other Colleges are not accepted in place of our own examinations for a degree.

Every candidate for the degree of Doctor of Medicine must (1) be more than twenty-one years of age; (2) be of good moral character; (3) have graduated from a registered College or satisfactorily completed a full course in a registered academy or high school; or have had a preliminary education considered and accepted as fully equivalent; (4) have studied medicine not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, of which the last must be taken at this school, in four different calendar years, in a medical college registered as maintaining at the time a satisfactory standard; (5) present evidence that he has dissected all parts of the cadaver; (6) present evidence of attendance upon eight cases of confinement; (7) pass a satisfactory written examination in Biology, Comparative Anatomy, Histology, Anatomy, Physiology, Chemistry, Bacteriology, Embryology, Materia Medica, Pathology, Physical Diagnosis, Therapeutics, Obstetrics, Gynecology, Surgery, and Practice.

Final (oral) examinations before Delegates from the New Hampshire and Vermont Medical Societies will be held on March 29, 1907.

EXPENSES

Tuition is to be paid in two equal installments on October first and March first. Laboratory fees must be paid to the Treasurer at the beginning of each year.

MATRICULATION — Paid once on entering	$5.00
TUITION — For each of the four courses	100.00
Chemicals and ordinary breakage, First year	6.00
Second year	5.00
Bacteriology and Histology. Material, First year	5.00
Pathology. Material, Second year	3.00
Biology and Comparative Anatomy. Material, First year	6.00
Embryology. Material, Second year	3.00
Physiology. Material, First year	5.00
Second year	4.00
Anatomy. Material	at cost
Room Rent	30.00 to 100.00
Board, per week	3.00 to 5.00
Text-books	10.00 to 20.00
Washing	10.00 to 30.00

SCHOLARSHIPS

By the gift of one thousand dollars, Mrs. Mary H. Chamberlain of Princeton, New Jersey, has established, in memory of her husband, the William M. Chamberlain scholarship in Dartmouth Medical School. The income of the above-named sum is annually to be loaned to such worthy and indigent medical students as may need its aid toward payment of lecture fees. The loan is to be for four years, without interest.

HOSPITAL

The MARY HITCHCOCK MEMORIAL HOSPITAL, a cottage hospital of thirty-six beds and a model in construction, furnishes clinical material and the opportunity to learn the methods of the most advanced hospital work.

In operating rooms with modern appointments the student has a close view of a large number of operations in general surgery and gynecology and of special operations upon the eye, ear, throat, and nose. He is able to follow these cases and note the after-treatment and results. The medical clinics are carefully used to illustrate the didactic teaching.

It is the hospital centre for a large part of New Hampshire and of Vermont. About eighty per cent of its cases are surgical.

During the year 1905–6 there have been 625 operations on in-patients. Of 400 visits, operations, dressings, etc., in the out-patient department, 250 were surgical; 81 were nose, ear, or throat operations and treatments; 32 were operations or treatments of the eye

There have been 9 gall-bladder operations; 105 operated cases of Appendicitis; 37 Hysterectomies; 83 operations on the Uterine Appendages; 37 Ventral Suspensions; 62 Curettements; 1 Nephrectomy; 6 Cataract operations; 33 Adenoid and 20 Tonsil resections; and many others equally important to the student. Among the 122 Medical cases there have been diseases of the Circulatory, Respiratory, Genito Urinary, and Nervous systems, and other classes of disease. These references are to a portion of the recorded cases.

Because the classes are small each student has the opportunity before graduating of receiving personal instruction at the bedside, of assisting in operations, and of giving ether. They are divided into small groups which follow up the cases and do the dressings under direction. They are taught physical diagnosis at the bedside and in the examining room. They make blood and urine tests of patients who are under their daily observation. The diagnosis, prognosis, and after history of these cases are discussed freely and in detail with the classes by the Instructors.

The appointment of a recent graduate as house officer is made every six months, and the position affords full and valuable experience. The terms of service begin on April first and October first and continue one year.

☞ Those desiring further information may address WILLIAM T. SMITH, M.D., Dean, Hanover, N. H.

GRADUATES, MARCH 30, 1906

Bennett, Hamlin Perley, A.B.
Bowler, John William
Bullard, Edward Arthur
Chedel, Charles Brigham, A.B.
Craig, Willis Parker, B.L.
Farr, Irvin Harris
Foss, George Herbert
Hoyt, Park Rowe
Mathes, Roy Wentworth
McCorison, Carl Copeland

SUMMER SCHOOL

CALENDAR

1906	July 9 to August 17.
1907	July 8 to August 16.

SUMMER SCHOOL

FACULTY

SESSION OF 1906

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.

THOMAS WILSON DORR WORTHEN, A.M., DIRECTOR *and Cheney Professor of Mathematics.*

EDWIN JULIUS BARTLETT, A.M., M.D., *New Hampshire Professor of Chemistry.*

CLARENCE EDMUND MELENEY, A.M., LL.D., *Associate Superintendent, Department of Education, City of New York.*

WILLIAM DWIGHT PARKINSON, LL.B., *Superintendent of Schools, Waltham, Mass.*

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.*

CHARLES WORTHEN SPENCER, PH.D., *Preceptor in History, Politics and Economics, Princeton University. Professor of History, Colgate University, 1896–1905.*

RICHARD WELLINGTON HUSBAND, A.M., *Assistant Professor of Greek and Classical Philology.*

NORMAN EVERETT GILBERT, PH.D., *Assistant Professor of Physics.*

PRESCOTT ORDE SKINNER, A.M., *Assistant Professor of the Romance Languages (French and Spanish.)*

HARLOW STAFFORD PERSON, PH.D., *Assistant Professor of Commerce and Industry.*

LEON BURR RICHARDSON, A.M., *Instructor in Chemistry.*

MILO TRUE MORRILL, A.M., *Instructor in Psychology.*

STUDENTS

Adams, Franklin Lancelot, A.B. (Boston Univ.), Assistant in Physical Laboratory, *Physics*, Hanover, N. H.
Bailey, Edward Sumner, *English*, *Spanish*, *Chemistry*, North Scituate, Mass.
Brock, Maynor Davis, Student, *Physics*, *Chemistry*, North Conway, N. H.
Brown, Ogden, Student, *English*, St. Louis, Mo.
Burr, Mary G., *French*, Philadelphia, Penn.
Chandler, Albert Richard, Student, *Physics*, *French*, Norwich, Conn.
Danforth, Richard Stevens, Student, *Physics*, Gardiner, Me.
Dodge, Amos, Student, *English*, *French*, *Spanish*, Concord, N. H.
Ernesty, Caroline Louise, Teacher, High School, *Psychology*, Waterbury, Conn.
Farwell, John Thurston, *Spanish*, *Chemistry*, Berlin, N. H.
Ferdinand, Price, *Physics*, Worcester, Mass.
Fernald, Edith, A.B. (Vassar), Teacher, High School, *Physics*, Concord, N. H.
Fish, Harold Dufur, Student, *Chemistry*, South Royalton, Vt.
Fisher, Ray Haynes, *Mathematics*, Pepperell, Mass.
Frost, Ernest Howard, Student, *English*, Brockton, Mass.
Gallagher, Morrill Allen, Student, *English*, *Spanish*, Roxbury, Mass.
Gates, Stanley, Student, *English*, Claremont, Cal.
Goode, Richard Henry, Student, *History*, *Spanish*, Somerville, Mass.
Harriman, Walter Hartwell, Student, *Mathematics*, Nashua, N. H.
Hazen, Albert Rockwell, Student, *English*, White River Junction, Vt.
Hazen, Fanny Vose, *French*, Hanover, N. H.
Heath, Helen Celia, A.B. (Vassar), Teacher, St. Mary's School, *Chemistry*, Concord, N. H.
Howard, Henry Dwight, Jr., Student, *History*, *English*, Ludlow, Vt.
Kilbourn, Albert Sidney, Principal, Grammar School, *History*, *English*, Winchendon, Mass.
Leete, George Paul, Student, *English*, Concord, N. H.
Lynde, William Mayo, Student, *History*, *English*, Williamstown, Vt.
Matthews, Frank Harrison, *Physics*, *Chemistry*, Manchester, N. H.
McAllaster, Howard Edward, Student, *English*, Winnetka, Ill.
McCann, Charles Daniel, *English*, *Chemistry*, *Spanish*, Brockton, Mass.
McDonald, Arthur Joseph, A.B. (Holy Cross), vice Prin. High School, *Education*, *Mathematics*, Holyoke, Mass.
Mills, Edith Odell, Teacher, Crosby High School, *Psychology*, Waterbury, Conn.

Moore, Harriet Edith, Teacher, Froebel Academy, *Education*, *English*, Aquebogue, N. Y.
Naylor, Emmett Hay, Student, *English*, *Chemistry*, Evanston, Ill.
Newell, Etta Mattocks, Asst. Lib., College Library, *French*, Hanover, N. H.
Nichols, Andrew Leach, Student, *Physics*, Sudbury, Vt.
Nolan, John Hugh, Student, *Chemistry*, New Britain, Conn.
Ockerblad, Selma Elizabeth, *English*, Hanover, N. H.
O'Shea, Arthur Dennis, Student, *History*, *English*, Laconia, N. H.
Pierce, Carlos Thornton, Student, *English*, Newton Centre, Mass.
Pollock, Clara Eloise, Teacher, Public School 84, *English*, Brooklyn, N. Y.
Ray, Bertha Warren, Teacher, Public School 106, *Education*, Brooklyn, N. Y.
Slafter, John Lyman, *French*, *Chemistry*, Thetford, Vt.
Smith, James Francis, A.B. (Dartmouth), *Education*, *Mathematics*, White River Junction, Vt.
Stearns, Chester Arthur, Student, *History*, *English*, Johnson, Vt.
Stevens, Henry James, A.B. (Dartmouth), A.M. (Dartmouth), Teacher, Public School 186, *Education*, *English*, New York, N. Y.
Stone, Robert Mason, Student, *English*, *Chemistry*, Winchester, Mass.
Vail, Solon Joshua, Student, *History*, *English*, Randolph, Vt.
Van Beil, Emilie, *French*, New York, N. Y.
Walker, William Dodge, Student, *English*, Goffs Falls, N. H.
Wang, Lingoh, *Mathematics*, Peking, China.
Whitney, Alvin Goodnow, Student, *History*, *English*, *Chemistry*, Groton, Mass.
Wilson, Jesse Scott, *Mathematics*, *Physics*, Concord, N. H.
Wolfe, Claude Anthony, *English*, *Chemistry*, Los Angeles, Cal.

GENERAL STATEMENT

The principal aim of the Summer School is to meet the wants of teachers and advanced students.

The work for teachers is of three grades:

1. The discussion of the subject matter of actual instruction in the public schools, with correlation of subjects and methods of instruction.

2. Somewhat advanced work along the same lines as the secondary school work, the equivalent of the College Major in these subjects.

3. Advanced courses, which count toward the Master's degree for College graduates.

In all of the courses the attempt is made to meet the needs of the individual students or groups of students working with the same end in view, and conferences are arranged so as to do as far as possible any preliminary work which may be found necessary, or any more advanced work which may be found practicable.

The Master's Degree

The basis of the Master's degree in time is one year of work of graduate grade in residence at the College. Three sessions of the Summer School with intervening readings may be made the equivalent of the year of residence work. The work in History, English, French, Classical Philology, Mathematics, and Chemistry will be arranged progressively so that it will be possible to enter upon an extended course continuing for at least three sessions in these departments. Corresponding courses will be given in other departments as they may be called for.

Graduate students devoting a portion of this year of residence to giving instruction, and students completing the undergraduate work in less than four years and having to their credit at graduation additional courses which count toward a Master's degree, may complete the work for the Master's degree in the Summer School.

For the requirements for the Master's degree see College Catalogue and circular which will be sent on application.

Session of 1907

The next session will open on Monday, July 8, 1907.

The classes will meet five times per week for six weeks, unless otherwise stated in connection with the courses, in periods varying from one hour to two hours for recitation and lecture courses and from two to four hours for laboratory courses. Saturdays are left open for excursions or recreation.

Admission

All courses are open to teachers and others who are able to take them, and entrance examinations are not required.

Undergraduates whose work in their classes has been satisfactory may take courses in the Summer School, for which credit will be given toward the Bachelor's degree. The admission of undergraduates to the Summer School is in charge of the Administration Committee, and all applications must be made on or before July 5.

COURSES OF INSTRUCTION, 1906

EDUCATION — SUPERINTENDENTS MELENEY AND PARKINSON

1. SCHOOL ADMINISTRATION AND MANAGEMENT — SUPERINTENDENT MELENEY

This course consisted of lectures, discussions, and conferences, based upon outlines and suggestive reading.

Municipal School Systems. Financial support, school boards, administrative officers, buildings and equipment, special schools, school departments, school apparatus, teaching force.

Supervision. Organization, relation to teachers and pupils, to school board, to the people, to the material conditions, records and reports.

The School. Organization, classification, courses of study, instruction, general method, efficiency, sanitation, care, relation to the community.

The Teacher. Character, qualifications, selection, growth, promotion, rank and grades, relation to officials, to pupils, to parents, daily preparation, lesson plans.

The Pupil. Age, physical condition and health, physical training, intellectual development, moral training, classification and promotion, study, attendance, discipline, relation to teachers and to other pupils, relation to society and to business. Laws affecting children.

2. HISTORY AND PRACTICE — SUPERINTEDENT PARKINSON

Lectures, readings, discussions.

A Brief Historical Review. The development of present day ideals, the lessons to be derived from past failures and past successes, the principles that underlie all systems and policies, and the real contributions to current thought made by the more conspicuous leaders of the past; endeavoring also to gain a friendly acquaintance with the individuals among them whose names are most familiar.

Education as a Profession. A survey of present phases and conditions from the practical point of view, noting the more obvious applications of ascertained principles to current problems.

Professional spirit, aim, standards, responsibilities, relationships, valuation, resources, safeguards, opportunities, rewards, and successes, in the light of familiar experience.

These courses were thirty hours each.

HISTORY — PROFESSOR SPENCER

1. *Political Development in the United States.* A general course in the history of the United States from the Revolution to the Civil War, with special attention to the frame of government under the Confederation and under the Constitution and to the development of nationality.

Lectures, reports, and conferences.

This was made equivalent to a course of two semester hours grade B.

2. *The American Revolution.* A study of the conditions prevailing in the continental portions of the British Empire in the eighteenth century, the circumstances of English politics in the period succeeding the Seven Years' War, and the actual handling, under these conditions, of the Imperial question during the period from 1764 to 1776.

Lectures, reports, and conferences.

This was made equivalent to a course of three semester hours grade C by those who were adequately prepared.

COMMERCE — PROFESSOR PERSON

1. *Elements of Commercial Geography.* This course aims to bring out the general principles of the relation between man's environment and his industrial life, and then to apply these principles by taking up a study of the various countries as producers and sellers of goods and as markets. While all important regions are considered in an elementary way, a more detailed study is given to the older industrial countries of Central and Western Europe. Among the facts considered are the following: Physical conditions, geology, soils, rivers, climate; the nature and distribution of extractive and of manufacturing industries; imports and exports; industrial aptitudes; business methods; and national peculiarities that determine the particular classes of goods demanded. Lectures and text-book.

2. *Resources and Industries of the United States.* A detailed study of the fundamental conditions of the industrial developement of the United States, such as geographical, geological, and climatic factors; the extent and distribution of resources; industrial traits; labor conditions; forms of industrial organization; followed by a general survey of the development and present conditions of the more important extractive industries, — agriculture, horticulture, forest industries, fishery industry, and mining, — and an investigation of the development and present condition of typical manufacturing industries.

These two courses are given alternate years — omitted in 1906, to be given in 1907.

ENGLISH — PROFESSOR EMERY

1. *The History of English Literature.* The aim of this course was to familiarize the student with the broad movements of thought as they are exemplified in literature, with the history of literary epochs, and with the great English classics. Frequent reports, both oral and written, upon the masterpieces of English literature were required.

This was made equivalent to Course 15, page 92.

2. *Shakespeare.* A short sketch of the development of the drama in England, and a study of the works of Shakespeare, in chronological order, both as literature and as dramatic art. Special emphasis was laid upon methods of teaching Shakespeare and other English classics as preparation for the college entrance requirements.

This was made equivalent to Course 22, page 93.

FRENCH — MR. SKINNER

1. *Phonetics of French.* Careful practice in pronunciation; composition and conversation; translation and rapid reading of texts; discussion of problems of teaching French. Course 3 or Course 4, page 95.

2. A more advanced course, with practice in speaking and writing French, with special training in the use of common idioms so as to acquire the ability to understand readily spoken French. Course 7, page 95.

SPANISH — MR. SKINNER

The course was for beginners. The work was in Spanish grammar, composition, and translation, and was adjusted to the needs of the members of the class. Course 1, page 98.

CLASSICAL PHILOLOGY — PROFESSOR HUSBAND

(Omitted in 1906)

1. *Comparative Grammar of Greek and Latin.* A study of the principles of sound-history in the two languages; lectures and reports on the history of the vowels and consonants; comparative study of inflections. Delbück, *Introduction to the Study of Language.* Giles, *Manual of Comparative Philology.* (Brugmann, *Griechische Grammatik,* and Stole-Schmalz, *Lateinische Grammatik,* are recommended for those who read German.)

2. *History of the Greek Language.* Questions of pronunciation and accent. Comparative study of the dialects, with readings from inscriptions. Study of the language of Homer in the light of comparative grammar, Brugmann or Meyer, *Griechische Grammatik.* (Riemann et Goelzer, *Grammaire Comparée, Phonétique,* may be substituted by those who do not read German.) Solmsen, *Inscriptiones Graecae ad Illustrandas Dialectos.* Monro, *Homeric Grammar. Text of the Iliad.*

Course 2 is open only to those who have taken Course 1 or its equivalent.

3. *The Theban Myth in Greek and Latin Tragedy.* The following tragedies will be read, partly in the original and partly in translation: Sophocles, Oedipus Tyrannus, Oedipus Coloneus and Antigone; Aeschylus, Seven against Thebes; Euripides, Phoenissae; Seneca, Oedipus and Phoenissae. Discussions and lectures on the treatment of the myth by the four tragedians. Open only to graduates or teachers. Students should be provided in advance with the books required. Lists of suitable editions will be sent on application.

These courses are of graduate grade and each counts three semester hours for those who are candidates for the degree of Master of Arts.

MATHEMATICS — PROFESSOR WORTHEN

1. *Course for Teachers.* A presentation and discussion of the subject matter of elementary Mathematics, with comparison of Algebraic and Geometric methods in theory and in the common applications to practical problems. Outlines for Arithmetic, Algebra, Plane and Solid Geometry, and Trigonometry, were considered in detail.

This work was arranged in two courses of thirty hours each, emphasizing the Algebraic and the Geometric methods respectively.

2. *Differential Calculus.* An elementary course including applications to the development of functions, evaluation of indeterminate forms, maxima and minima functions, and the investigation of plane curves. Course 8 a, page 106.

PHYSICS — PROFESSOR GILBERT

1. An elementary course, recitations and laboratory work, covering the usual requirements for entrance to college.

2. A course for teachers of elementary physics. Experiments are selected to meet the desires of each student. Considerable attention is given to lecture table experiments suitable for the general classroom.

3. A course in the theory and use of instruments of precision and in the experimental verification and application of physical laws pertaining to mechanics and sound. Course 3, page 110.

4. A continuation of course 3 into the realm of heat, electricity, magnetism, and light. Course 4, page 110.

CHEMISTRY — PROFESSOR BARTLETT AND MR. L. B. RICHARDSON

1. *Elementary Chemistry.* Lectures, recitations, and laboratory work. Special emphasis was laid upon the general principles of Chemistry, the Notation in its experimental and arithmetical meaning, and the Nomenclature and Terminology in their applications. Course 2, page 114.

2. *Qualitative Analysis.* A study of the metals and their compounds by lectures, recitations, and by Qualitative Analysis in the laboratory. Course 3 or Course 4, page 115, by those who were well prepared.

3. *Quantitative Analysis.* Elementary and advanced gravimetric and volumetric methods. Course 7 or Course 8 a, page 116, by those who were adequately prepared.

The Chemical Department will forward in every practicable way the plans of advanced students who may wish to work out a coherent course to the Master's degree. It is probable that a diligent student who begins upon the foundation desired by the Chemical Department, viz.: the equivalent of Courses 2–8 a could be recommended for the Master's degree after three summer sessions.

The chemical laboratories are open during the forenoons, and the instruction being essentially individual can be adapted to students at almost any stage.

EVENING LECTURES

During the session a series of lectures was given on Wednesday evenings.

LIST OF SPEAKERS AND SUBJECTS, 1906

Professor C. F. Richardson, "The Origins of Rhyme."

Superintendent C. E. Meleney, "The Educational Problem of a Great City." Illustrated.

Professor N. E. Gilbert, "Solar Eclipses." Illustrated.

Professor E. J. Bartlett, "The Mystery of the Chemical Elements."

Professor P. O. Skinner, "The Revival of Learning in the Renaissance."

Professor G. M. Harper, "Balzac."

The libraries, reading and reference rooms, museum, and gymnasium are open to students of the Summer School.

The tuition fee for the session is $20 when a single course is taken and $25 when more than one course is taken, and the laboratory fees are those charged by the departments for the corresponding courses in College.

The next session will open July 8, and close Aug. 16, 1907. A circular containing an extended description of the courses will be issued at an early date.

For further information, address Professor T. W. D. Worthen, Director, 11 Webster Avenue, Hanover, N. H.

ASSOCIATIONS OF ALUMNI

ASSOCIATIONS OF ALUMNI

THE GENERAL ASSOCIATION

FOUNDED IN 1854

President, CHARLES M. HOUGH, '79.
Vice-Presidents, { FRANK N. PARSONS, '74. / SAMUEL H. HUDSON, '85.
Secretary, FRANK A. SHERMAN, '70, Hanover, N. H.
Statistical Secretary, JOHN M. COMSTOCK, '77, Chelsea, Vt.
Treasurer, PERLEY R. BUGBEE, '90, Hanover, N. H.

Executive Committee:

GEORGE H. M. ROWE, '64 (*Chairman*).
ISAAC F. PAUL, '78, *Secretary*.
THOMAS W. D. WORTHEN, '72.
WILLIAM H. GARDINER, '76.
EDWIN F. JONES, '80.
HORACE G. PENDER, '97.
GEORGE E. PINGREE, '01.

Committee on Alumni Trustees:

GEORGE H. ADAMS, '73.
CHARLES B. HAMMOND, '77.
JOHN F. THOMPSON, '82.
BENJAMIN TENNEY, '83.
WILLIAM M. HATCH, '86.

The membership includes all graduates of the College, the Thayer School of Civil Engineering, and the Chandler School of Science and the Arts. Others who receive from the College an Honorary Degree, or are elected at an Annual Meeting, shall be honorary members, but without the right of voting.

The Annual Meeting is held on Tuesday afternoon of Commencement week. The Alumni Dinner occurs on Wednesday, Commencement Day.

By an arrangement with the Trustees of the College, five of their number are elected to their office upon the nomination by ballot of all Alumni of the College of three years' standing, one vacancy occurring in the Board at each Commencement.

Ballot forms, containing the names of five candidates who have been selected by the Nominating Committee for the vacancy, are sent to all Alumni two months before Commencement, and the voting closes at 6 P.M. on Tuesday evening of Commencement week.

LOCAL ASSOCIATIONS

BOSTON ASSOCIATION, FOUNDED IN 1864

President, SAMUEL H. HUDSON, '85.
Secretary, GUY W. COX, '93, 73 Tremont St.
Annual Reunion, third Wednesday in January.

NEW YORK ASSOCIATION, FOUNDED IN 1866

President, FRANCIS BROWN, '70.
Secretary, LUCIUS E. VARNEY, '99, 38 Park Row.
Annual Dinner, second Tuesday in December.

CINCINNATI ASSOCIATION, FOUNDED IN 1875

President, GEORGE GOODHUE, '76.
Secretary, ALBERT H. MORRILL, '97, City Hall.
Annual Reunion in January.

WASHINGTON ASSOCIATION, FOUNDED IN 1876

President, CHARLES S. CLARK, '82.
Secretary, HENRY P. BLAIR, '89, 213 E. Capitol St.
Annual Reunion in January.

CHICAGO ASSOCIATION, FOUNDED IN 1876

President, JAMES P. HOUSTON, '84.
Secretary, FREDERICK V. BENNIS, '98, 259 So. Clinton St.
Annual Reunion in February.

NORTHWEST ASSOCIATION, FOUNDED IN 1880

President, JOSEPH F. MOORE, '83.
Secretary, WARREN UPHAM, '71, State Capitol, St. Paul, Minn.
Annual Reunion in winter, alternating in St. Paul and Minneapolis.

PACIFIC COAST ASSOCIATION, FOUNDED IN 1881

President, THOMAS A. PERKINS, '90.
Secretary, S. C. SMITH, '97, 1247 Broadway, Oakland, Cal.
Annual Reunion, second Thursday in April.

MANCHESTER (N. H.) ASSOCIATION, FOUNDED IN 1881

President, ELIJAH M. TOPLIFF, '52.
Secretary, ARTHUR H. HALE, '86.
Annual Reunion, second Tuesday in January.

CONCORD (N. H.) ASSOCIATION, FOUNDED IN 1891

President, J. EASTMAN PECKER, '58.
Secretary, ———
Annual Reunion last Wednesday in January.

WESTERN MASSACHUSETTS ASSOCIATION, FOUNDED IN 1892

President, EDWARD H. TROWBRIDGE, '81.
Secretary, J. FRANK DRAKE, '02, Board of Trade, Springfield.
Annual Reunion in November.

VERMONT ASSOCIATION, FOUNDED IN 1893

President, ———
Secretary, FRED A. HOWLAND, '87, Montpelier.
Annual Reunion in November.

"THE GREAT DIVIDE" ASSOCIATION, FOUNDED IN 1895

President, LUCIAN H. RICHARDSON, '73.
Secretary, RICHARD E. LEACH, ex '01, 1659 Gilpin St., Denver, Colo.
Annual Reunion at Denver, second Tuesday in January.

DETROIT ASSOCIATION, FOUNDED IN 1895

President, ———
Secretary, WILLIAM S. SAYRES, '76, 163 West Willis Ave.

ROCKY MOUNTAIN ASSOCIATION, FOUNDED IN 1895

President, CLINTON H. MOORE, '74.
Secretary, ———

"OF THE PLAIN" ASSOCIATION, FOUNDED IN 1898

President, CHARLES W. POLLARD, '95.
Secretary, BYRON W. MATTESON, '03, Omaha, Neb.

CONNECTICUT ASSOCIATION, FOUNDED IN 1901

President, DANIEL E. BRADLEY, '83.
Secretary, ALBION B. WILSON, '95, 36 Mahl Ave., Hartford, Conn.

IOWA ASSOCATION, FOUNDED IN 1903

President, FRANK W. HODGDON, '94.
Secretary, EUGENE D. BURBANK, '91, 378 Wabash Ave., Chicago, Ill.

SOUTHERN CALIFORNIA ASSOCIATION, FOUNDED IN 1904

President, REV. GEORGE A. GATES, '73.
Secretary, WILLIAM D. BLATNER, '05, 1615 West 7th St., Los Angeles, Cal.

MEDICAL SCHOOL ASSOCIATION, FOUNDED IN 1886

President, GRANVILLE P. CONN, M.D., '56.
Secretary, HOWARD N. KINGSFORD, M.D., '98, Hanover, N. H.
Annual Reunion at Concord, N. H., at the time of the meeting of the New Hampshire Medical Society in the latter part of May.

THAYER SOCIETY OF ENGINEERS, FOUNDED IN 1903

President, JOHN J. HOPPER, '77.
Secretary, CHARLES H. NICHOLS, T.S.C.E., '88, 35 West 31st St., New York City.
Annual meeting in January in New York City.

THE DARTMOUTH CLUB OF BOSTON, FOUNDED IN 1890

President, ISAAC F. PAUL, '78.
Secretary, HORACE G. PENDER, '97, 209 Washington St.

Regular meetings and dinners are held each month during the year, excepting January, July, August, and September. They are held at the University Club, 270 Beacon Street, or at some up-town hotel, on the evening of the second Friday of the month. The Annual Meeting is that held in December.

THE DARTMOUTH CLUB OF THE CITY OF NEW YORK, FOUNDED IN 1899. INCORPORATED 1904, DARTMOUTH CLUB OF NEW YORK

President, LUTHER B. LITTLE, '82.
Secretary, LUCIUS E. VARNEY, '99, 38 Park Row.

Club Rooms, 12 West 44th Street.

Annual corporate meeting held last Thursday in March. Regular meetings and dinners held the second Tuesday of each month except July and August. Club night every Tuesday evening.

THE DARTMOUTH LUNCH CLUB OF WORCESTER, MASS., FOUNDED IN 1904

President, LEVI L. CONANT, '79.
Secretary, DANA M. DUSTAN, '80, 340 Main St.

THE DARTMOUTH CLUB OF PITTSBURG, FOUNDED IN 1906

President, AUGUSTINE V. BARKER, '72.
Secretary, LOUIS H. W. FRENCH, '88, 6007 Center Ave.

Annual meeting, in February.

ASSOCIATION OF SECRETARIES, FOUNDED IN 1905.

President, WALTER H. SMALL, '78.
Secretary, ERNEST M. HOPKINS, '01, Hanover, N. H.

Annual meeting in February, at Hanover.

CLASS SECRETARIES

'45 James W. Rollins, Esq., 27 School St., Boston, Mass.
'46 Dr. J. Whitney Barstow, 1 Gramercy Park, N. Y.
'50 Dr. John Ordronaux, Glen Head, Long Island.
'52 Mr. Martin H. Fiske, Temple, N. H.
'53 Rev. Silvanus Hayward, Globe Village, Mass.
'54 Rev. S. L. B. Speare, 27 Wesley St., Newton, Mass.
'55 S. R. Bond, Esq., 321 John Marshall Place, Washington, D. C.
'56 Rev. F. D. Ayer, 3739 Walnut St., Philadelphia, Penn.
'57 Dr. John H. Clark, Amherst, N. H.
'58 Rev. Samuel C. Beane, 43 E. Haverhill St., Lawrence, Mass.
'59 Dr. Edward Cowles, 419 Boylston St., Boston, Mass.
'60 Rev. Arthur Little, 6 Melville Ave., Dorchester, Mass.
'61 Hon. George A. Marden, 84 Fairmount St., Lowell, Mass.
'62 Horace S. Cummings, Esq., 1750 K St., N. W., Washington, D. C.
'63 Mr. M. C. Lamprey, Concord, N. H.
'64 Dr. John C. Webster, 946 Jackson Boulevard, Chicago, Ill.
'65 Rev. Henry I. Cushman, 26 Pitman St., Providence, R. I.
'66 Mr. Henry Whittemore, State St., Framingham, Mass.
'67 Prof. Horace Goodhue, Northfield, Minn.
'68 Prof. Charles F. Emerson, Hanover, N. H.
'69 Mr. Charles P. Chase, Hanover, N. H.
'70 Hon. John H. Hardy, Arlington, Mass.
'71 Prof. M. D. Bisbee, Hanover, N. H.
'72 Prof. Albert E. Frost, Winthrop St., Pittsburg, Penn.
'73 Rev. S. Winchester Adriance, Winchester, Mass.
'74 Dr. Charles E. Quimby, 44 West 36th St., New York, N. Y.
'75 Henry W. Stevens, Esq., Concord, N. H.
'76 Mr. William H. Gardiner, 259 South Clinton St., Chicago, Ill.
'77 Mr. John M. Comstock, Chelsea, Vt.
'78 Mr. Walter H. Small, 42 Adelphi Ave., Providence, R. I.
'79 Mr. C. C. Davis, Winchester, N. H.
'80 Mr. Dana M. Dustan, 340 Main St., Worcester, Mass.
'81 Rev. Myron W. Adams, Atlanta University, Atlanta, Georgia.
'82 Luther B. Little, Esq., 5th Ave. Hotel, New York. N. Y.
'83 Prin. S. W. Robertson, Rochester, N. H.

'84 Dr. James P. Houston, 1180 Sheffield Ave., Chicago, Ill.
'85 Prof. H. D. Foster, Hanover, N. H.
'86 William M. Hatch, Esq., 221 Columbus Ave., Boston, Mass.
'87 Mr. Emerson Rice, Hyde Park, Mass.
'88 Rev. William B. Forbush, 706 Second Ave., Detroit, Mich.
'89 Mr. James C. Flagg, Hackley School, Tarrytown-on-Hudson, N. Y.
'90 Charles A. Perkins, Esq., Criminal Courts Bldg., New York, N. Y.
'91 Mr. Frank E. Rowe, 79 Milk St., Boston, Mass.
'93 Mr. H. C. Pearson, Concord, N. H.
'94 Rev. Charles C. Merrill, Winchendon, Mass.
'95 Mr. Frank P. Dodge, Boulder, Colo.
'96 Carl H. Richardson, Esq., 27 School St., Boston, Mass.
'97 John M. Boyd, Esq., Boston University, Boston, Mass.
'98 Herbert W. Blake, Esq., Island Pond, Vt.
'99 Mr. Elmer W. Barstow, Central Grammar School, New Britain, Conn.
'00 Mr. Henry N. Teague, 141 East 57th St., New York.
'01 Channing H. Cox, Esq., 433–439 Tremont Bldg., Boston, Mass.
'02 Mr. W. C. Hill, 15 Lonsdale St., Ashmont, Mass.
'03 Mr. Jeremiah F. Mahoney, No. Andover, Mass.
'04 Mr. H. E. Woodward, 35 Clark St., Lexington, Mass.
'05 Mr. Edgar Gilbert, Methuen, Mass.
'06 Mr. Ralph W. Scott, 133 Broad St., Boston, Mass.

PHI BETA KAPPA SOCIETY

Alpha of New Hampshire, founded in 1787.

***President*, AMOS N. CURRIER, '56.**
***Vice-President*, GEORGE D. LORD, '84.**
***Secretary*, JOHN M. POOR, '97, Hanover, N. H.**
***Treasurer*, CHARLES A. HOLDEN, '95.**
Annual meeting, in Hanover, last Tuesday in June.

CLASS OF 1906

Robert Irving Adriance
Augustine Haines Ayers
Ralph Dennison Beetle
Charles King Benton
Crawford Morrison Bishop
Herbert Leslie Boynton
Roy Brackett
Addison Gott Brooks
Howard James Chidley
Francis Lane Childs
Arthur Mantor Cragin
John Wesley Cromwell, Jr.
Halsey Charles Edgerton
William Henry Gardiner, Jr.
Thurlow Marshall Gordon
Foster Erwin Guyer
Albert George Heyhoe
Nathaniel Leveroni
Harvey Sumner Macullar
Arthur Bond Meservey
Charles Alfred Pierce
Edward Blanchard Redman
Harold Goddard Rugg
Carlton Monson Soule
Bertrand Edwin Spencer

PUBLICATIONS

All graduates are hereby earnestly requested to forward their publications to the College Librarian for preservation in the Alumni alcove.

The Annual Catalogue usually issued in December, will be sent to each Alumnus who has expressed a desire to receive it and has given his address.

An Obituary Record is published annually in the Autumn, and will be sent to the Alumni with the Annual Catalogue in December.

A General Catalogue, much enlarged, with historic notes and views of buildings, old and new, was issued in December, 1900. This General Catalogue will be sent to any address on the receipt of $.50 for paper cover, or for $1.00 bound in cloth.

The College has just published a Supplement to the General Catalogue, giving the latest address of the Alumni; the price of this Supplement is $1.00 postpaid.

In response to numerous requests that the proceedings of the Webster Centennial be published, a volume was issued by the College describing the exercises in detail and giving the addresses and speeches, together with notes of reminiscences. The price is $1.50 for cloth, and $1.00 for paper cover.

The Proceedings in connection with the Laying of the Corner-Stone of the New Dartmouth Hall, including the Historical Address by Professor Brown, and speeches by Lord Dartmouth and others, has been published in book form, and is sold at $1.00.

Orders for any of the above publications may be sent to Professor C. F. Emerson, Dean, Hanover, N. H.

SUMMARY AND INDEX

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Total (deducting for names inserted twice)	1129
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DISTRIBUTION BY STATES AND COUNTRIES

Massachusetts	500	Indiana	5
New Hampshire	233	Kentucky	3
New York	76	Michigan	3
Vermont	73	North Dakota	3
Illinois	67	Kansas	2
Maine	44	Mexico	2
Connecticut	19	Minnesota	2
Ohio	17	South Dakota	2
Colorado	12	Washington	2
Rhode Island	10	Canada	1
Pennsylvania	8	Delaware	1
Iowa	7	Idaho	1
Missouri	7	Mississippi	1
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